

```

BLOCK=OLD
DATASET=ISOTXS
BLOCK=STP027,3
DATASET=A.STP027
01      0      0      0      1      0      0      0      0      0      0      1
02      0      1      0      2      0      0      0      0      0      0      0
03      1      0      1      0      0      1      0      0      0      0      0
DATASET=A.DIF3D
01      RINSC LEU 9/30/98
02      20000900000 0
03      0      0      0      0      150      0      0      8      0      0      50
04      0      0      0      01      000      10      000      0      0      0000      0
05      1.0E-6      5.0E-4      5.0E-4
06      1.00000E-0      0.001      0.004      2.000-6      1.0000
DATASET=A.HMG4C
01      RINSC LEU Eq. Core at step 9c, rearrange 4 innermost FAs ALL RODS 100% OUT 2-2010
02      500000      1      0      0      0      0      0      0
DATASET=A.NIP3
01      RINSC LEU STARTUP CORE
01      ALL CONTROL BLADES FULL OUT
01      REG ROD FULL OUT
02      1 25000 1
03      44
04      2      2      2      2      2      2
06      H2ORFO 0.0      113.03      0      37 0.0      160.0
06      TCB1 0.0      113.03      0      37 0.0      29.527
06      TCB2 11.43      101.60      5      33 0.0      52.387
06      TC1 0.0      113.03      0      37 0.0      26.987
06      TC2 13.97      99.06      6      32 26.987      49.847
06      GSBOX 26.352      86.678      5      28 52.387      63.187
06      SHIELD 27.940      85.090      8      27 53.977      61.597
06      GRID 26.085      86.945      2      4 63.822      135.146
06      GBOX 26.085      86.945      4      31 63.822      135.146
06      H2ORFI 26.720      86.310      4      31 64.457      134.511
06      AXREFT 26.773      86.257      26      31 64.51      134.458
06      AXREFB 26.773      86.257      4      9 64.51      134.458
06      POST1 26.085      34.545      4      31 63.822      72.282
06      POST2 26.085      34.545      4      31 126.686      135.146
06      POST3 78.485      86.945      4      31 63.822      72.282
06      POST4 78.485      86.945      4      31 126.686      135.146
06      GRAF1 44.857      68.173      7      29 64.51      72.282
01 moved 5 Be to core boundary E8 D8 C8 E2 C2 11/98
06      BEEC8 44.857      68.173      7      29 118.914      126.686
06      BE-E2 44.857      52.629      7      29 72.282      80.054
06      BE-C2 60.401      68.173      7      29 72.282      80.054
06      GRAF5 34.545      42.317      7      29 64.51      126.686
06      BEF5A 34.545      42.317      9      26 80.054      118.914      Be
06      GRAF6 70.713      78.485      7      29 64.51      126.686
06      BEF6A 70.713      78.485      9      26 80.054      118.914      Be
01 move 2 BE away BE1 26.773      34.545      9      26 72.282      126.686
06      GRAG1 26.773      34.545      9      26 72.282      126.686      G
01 move 2 Be away BE2 78.485      86.257      9      26 72.282      126.686
06      GRAG2 78.485      86.257      9      26 72.282      126.686
06      FC 78.485      86.257      35      37 126.686      134.458
06      CIC 26.773      34.545      35      37 126.686      134.458
01 RBBL1S to BE-F9 11/98
06      BE-F9 34.545      42.317      9      26 126.686      134.458
01 RBBL2S to BE-E9 updated from rinsc info 8/98
01 removed RB box 11/98 06 RBBL2E 45.351      52.135      9      26 126.686      134.458
01 removed 06 RB2 45.351      52.135      9      26 127.0417      134.1023
06      G-E9 44.857      52.629      9      26 126.686      134.458
06      RBBL3S 52.629      60.401      9      26 126.686      134.458
06      RBBL3E 53.123      59.907      9      26 126.686      134.458
06      RB3 53.123      59.907      9      26 127.0417      134.1023
06      RBBL4S 60.401      68.173      9      26 126.686      134.458
06      RBBL4E 60.895      67.679      9      26 126.686      134.458
06      RB4 60.895      67.679      9      26 127.0417      134.1023
06      RBBL5S 70.713      78.485      9      26 126.686      134.458
06      RBBL5E 71.207      77.991      9      26 126.686      134.458
06      RB5 71.207      77.991      9      26 127.0417      134.1023
06      E3A 44.857      52.629      9      13 80.054      87.826
06      E4A 44.857      52.629      9      13 87.826      95.598
06      E5A 44.857      52.629      9      13 95.598      103.370
06      E6A 44.857      52.629      9      13 103.370      111.142
06      E7A 44.857      52.629      9      13 111.142      118.914
06      D3A 52.629      60.401      9      13 80.054      87.826
06      D4A 52.629      60.401      9      13 87.826      95.598
06      D6A 52.629      60.401      9      13 103.370      111.142
06      D7A 52.629      60.401      9      13 111.142      118.914
06      C3A 60.401      68.173      9      13 80.054      87.826
06      C4A 60.401      68.173      9      13 87.826      95.598

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| | | | | | | | |
|----|------------------------------------|----------|----------|---------|-----|----------|------------------|
| 06 | C5A | 60.401 | 68.173 | 9 | 13 | 95.598 | 103.370 |
| 06 | C6A | 60.401 | 68.173 | 9 | 13 | 103.370 | 111.142 |
| 06 | C7A | 60.401 | 68.173 | 9 | 13 | 111.142 | 118.914 |
| 06 | E3B | 44.857 | 52.629 | 13 | 17 | 80.054 | 87.826 |
| 06 | E4B | 44.857 | 52.629 | 13 | 17 | 87.826 | 95.598 |
| 06 | E5B | 44.857 | 52.629 | 13 | 17 | 95.598 | 103.370 |
| 06 | E6B | 44.857 | 52.629 | 13 | 17 | 103.370 | 111.142 |
| 06 | E7B | 44.857 | 52.629 | 13 | 17 | 111.142 | 118.914 |
| 06 | D3B | 52.629 | 60.401 | 13 | 17 | 80.054 | 87.826 |
| 06 | D4B | 52.629 | 60.401 | 13 | 17 | 87.826 | 95.598 |
| 06 | D6B | 52.629 | 60.401 | 13 | 17 | 103.370 | 111.142 |
| 06 | D7B | 52.629 | 60.401 | 13 | 17 | 111.142 | 118.914 |
| 06 | C3B | 60.401 | 68.173 | 13 | 17 | 80.054 | 87.826 |
| 06 | C4B | 60.401 | 68.173 | 13 | 17 | 87.826 | 95.598 |
| 06 | C5B | 60.401 | 68.173 | 13 | 17 | 95.598 | 103.370 |
| 06 | C6B | 60.401 | 68.173 | 13 | 17 | 103.370 | 111.142 |
| 06 | C7B | 60.401 | 68.173 | 13 | 17 | 111.142 | 118.914 |
| 06 | E3C | 44.857 | 52.629 | 17 | 21 | 80.054 | 87.826 |
| 06 | E4C | 44.857 | 52.629 | 17 | 21 | 87.826 | 95.598 |
| 06 | E5C | 44.857 | 52.629 | 17 | 21 | 95.598 | 103.370 |
| 06 | E6C | 44.857 | 52.629 | 17 | 21 | 103.370 | 111.142 |
| 06 | E7C | 44.857 | 52.629 | 17 | 21 | 111.142 | 118.914 |
| 06 | D3C | 52.629 | 60.401 | 17 | 21 | 80.054 | 87.826 |
| 06 | D4C | 52.629 | 60.401 | 17 | 21 | 87.826 | 95.598 |
| 06 | D6C | 52.629 | 60.401 | 17 | 21 | 103.370 | 111.142 |
| 06 | D7C | 52.629 | 60.401 | 17 | 21 | 111.142 | 118.914 |
| 06 | C3C | 60.401 | 68.173 | 17 | 21 | 80.054 | 87.826 |
| 06 | C4C | 60.401 | 68.173 | 17 | 21 | 87.826 | 95.598 |
| 06 | C5C | 60.401 | 68.173 | 17 | 21 | 95.598 | 103.370 |
| 06 | C6C | 60.401 | 68.173 | 17 | 21 | 103.370 | 111.142 |
| 06 | C7C | 60.401 | 68.173 | 17 | 21 | 111.142 | 118.914 |
| 06 | E3D | 44.857 | 52.629 | 21 | 26 | 80.054 | 87.826 |
| 06 | E4D | 44.857 | 52.629 | 21 | 26 | 87.826 | 95.598 |
| 06 | E5D | 44.857 | 52.629 | 21 | 26 | 95.598 | 103.370 |
| 06 | E6D | 44.857 | 52.629 | 21 | 26 | 103.370 | 111.142 |
| 06 | E7D | 44.857 | 52.629 | 21 | 26 | 111.142 | 118.914 |
| 06 | D3D | 52.629 | 60.401 | 21 | 26 | 80.054 | 87.826 |
| 06 | D4D | 52.629 | 60.401 | 21 | 26 | 87.826 | 95.598 |
| 06 | D6D | 52.629 | 60.401 | 21 | 26 | 103.370 | 111.142 |
| 06 | D7D | 52.629 | 60.401 | 21 | 26 | 111.142 | 118.914 |
| 06 | C3D | 60.401 | 68.173 | 21 | 26 | 80.054 | 87.826 |
| 06 | C4D | 60.401 | 68.173 | 21 | 26 | 87.826 | 95.598 |
| 06 | C5D | 60.401 | 68.173 | 21 | 26 | 95.598 | 103.370 |
| 06 | C6D | 60.401 | 68.173 | 21 | 26 | 103.370 | 111.142 |
| 06 | C7D | 60.401 | 68.173 | 21 | 26 | 111.142 | 118.914 |
| 06 | S1 | 44.857 | 45.7015 | 9 | 26 | 80.054 | 118.914 |
| 06 | S2 | 51.7845 | 52.629 | 9 | 26 | 80.054 | 118.914 |
| 06 | S3 | 52.629 | 53.4735 | 9 | 26 | 80.054 | 118.914 |
| 06 | S4 | 59.5565 | 60.401 | 9 | 26 | 80.054 | 118.914 |
| 06 | S5 | 60.401 | 61.2455 | 9 | 26 | 80.054 | 118.914 |
| 06 | S6 | 67.3285 | 68.173 | 9 | 26 | 80.054 | 118.914 |
| 06 | G1 | 42.317 | 44.857 | 9 | 26 | 64.51 | 70.086 |
| 06 | G2 | 42.317 | 44.857 | 9 | 26 | 98.090 | 100.878 |
| 06 | G3 | 42.317 | 44.857 | 9 | 26 | 128.882 | 134.458 |
| 06 | G4 | 68.173 | 70.713 | 9 | 26 | 64.51 | 70.086 |
| 06 | G5 | 68.173 | 70.713 | 9 | 26 | 98.090 | 100.878 |
| 06 | G6 | 68.173 | 70.713 | 9 | 26 | 128.882 | 134.458 |
| 06 | TRAP | 52.629 | 60.401 | 9 | 26 | 95.598 | 103.370 |
| 01 | flux trap size different 9/98 ** | | | | | | |
| 01 | 06 | HOLE | 54.8265 | 58.2035 | 9 | 26 | 97.7955 101.1725 |
| 06 | HOLE | 54.6861 | 58.3439 | 9 | 26 | 97.6551 | 101.3130 |
| 01 | G1 to G6 CR guide tubes | | | | | | |
| 06 | CNTL10 | 68.173 | 70.713 | 7 | 30 | 100.878 | 128.882 |
| 06 | CNTL20 | 68.173 | 70.713 | 7 | 30 | 70.086 | 98.090 |
| 06 | CNTL30 | 42.317 | 44.857 | 7 | 30 | 70.086 | 98.090 |
| 06 | CNTL40 | 42.317 | 44.857 | 7 | 30 | 100.878 | 128.882 |
| 06 | CNTL1I | 68.173 | 70.713 | 30 | 37 | 100.878 | 128.882 |
| 06 | CNTL2I | 68.173 | 70.713 | 30 | 37 | 70.086 | 98.090 |
| 06 | CNTL3I | 42.317 | 44.857 | 30 | 37 | 70.086 | 98.090 |
| 06 | CNTL4I | 42.317 | 44.857 | 30 | 37 | 100.878 | 128.882 |
| 06 | BLADE1 | 69.11915 | 69.76685 | 30 | 37 | 101.507 | 128.253 |
| 06 | BLADE2 | 69.11915 | 69.76685 | 30 | 37 | 70.715 | 97.461 |
| 06 | BLADE3 | 43.26315 | 43.91085 | 30 | 37 | 70.715 | 97.461 |
| 06 | BLADE4 | 43.26315 | 43.91085 | 30 | 37 | 101.507 | 128.253 |
| 06 | REGOUT | 52.629 | 60.401 | 7 | 37 | 72.282 | 80.054 |
| 01 | make the reg rod fully out 9/98 ** | | | | | | |
| 06 | REGIN1 | 52.629 | 60.401 | 30 | 37 | 72.282 | 80.054 |
| 06 | ROD1 | 53.816 | 59.214 | 30 | 37 | 73.46925 | 78.86675 |
| 06 | REGIN2 | 54.451 | 58.579 | 30 | 37 | 74.10425 | 78.23175 |
| 07 | E3 | E3A | E3B | E3C | E3D | | |
| 07 | E4 | E4A | E4B | E4C | E4D | | |

| | | | | | | | | | |
|----------------------------|------|------|-------------------|-------------------|---------------|-----|------------|--|--|
| 07 | E5 | E5A | E5B | E5C | E5D | | | | |
| 07 | E6 | E6A | E6B | E6C | E6D | | | | |
| 07 | E7 | E7A | E7B | E7C | E7D | | | | |
| 07 | D3 | D3A | D3B | D3C | D3D | | | | |
| 07 | D4 | D4A | D4B | D4C | D4D | | | | |
| 07 | D6 | D6A | D6B | D6C | D6D | | | | |
| 07 | D7 | D7A | D7B | D7C | D7D | | | | |
| 07 | C3 | C3A | C3B | C3C | C3D | | | | |
| 07 | C4 | C4A | C4B | C4C | C4D | | | | |
| 07 | C5 | C5A | C5B | C5C | C5D | | | | |
| 07 | C6 | C6A | C6B | C6C | C6D | | | | |
| 07 | C7 | C7A | C7B | C7C | C7D | | | | |
| 07 | FUEL | E3A | E3B | E3C | E3D | | | | |
| 07 | FUEL | E4A | E4B | E4C | E4D | | | | |
| 07 | FUEL | E5A | E5B | E5C | E5D | | | | |
| 07 | FUEL | E6A | E6B | E6C | E6D | | | | |
| 07 | FUEL | E7A | E7B | E7C | E7D | | | | |
| 07 | FUEL | D3A | D3B | D3C | D3D | | | | |
| 07 | FUEL | D4A | D4B | D4C | D4D | | | | |
| 07 | FUEL | D6A | D6B | D6C | D6D | | | | |
| 07 | FUEL | D7A | D7B | D7C | D7D | | | | |
| 07 | FUEL | C3A | C3B | C3C | C3D | | | | |
| 07 | FUEL | C4A | C4B | C4C | C4D | | | | |
| 07 | FUEL | C5A | C5B | C5C | C5D | | | | |
| 07 | FUEL | C6A | C6B | C6C | C6D | | | | |
| 07 | FUEL | C7A | C7B | C7C | C7D | | | | |
| 09 | X | 1 | 11.430000 | 1 | 13.970000 | 1 | 26.085000 | | |
| 09 | X | 1 | 26.352000 | 1 | 26.720000 | 1 | 26.773000 | | |
| 09 | X | 1 | 27.940000 | 1 | 34.545000 | 1 | 35.039000 | | |
| 09 | X | 1 | 41.823000 | 1 | 42.317000 | 1 | 43.263150 | | |
| 09 | X | 2 | 43.910850 | 1 | 44.857000 | 1 | 45.351000 | | |
| 09 | X | 1 | 45.701500 | 3 | 51.784500 | 1 | 52.135000 | | |
| 09 | X | 1 | 52.629000 | 1 | 53.123000 | 1 | 53.473500 | | |
| 09 | X | 1 | 53.816000 | 2 | 54.451000 | 1 | 54.686100 | | |
| 09 | X | 2 | 58.343900 | 1 | 58.579000 | 2 | 59.214000 | | |
| 09 | X | 1 | 59.556500 | 1 | 59.907000 | 1 | 60.401000 | | |
| 09 | X | 1 | 60.895000 | 1 | 61.245500 | 3 | 67.328500 | | |
| 09 | X | 1 | 67.679000 | 1 | 68.173000 | 1 | 69.119150 | | |
| 09 | X | 2 | 69.766850 | 1 | 70.713000 | 1 | 71.207000 | | |
| 09 | X | 1 | 77.991000 | 1 | 78.485000 | 1 | 85.090000 | | |
| 09 | X | 1 | 86.257000 | 1 | 86.310000 | 1 | 86.678000 | | |
| 09 | X | 1 | 86.945000 | 1 | 99.060000 | 1 | 101.600000 | | |
| 09 | X | 1 | 113.030000 | | | | | | |
| 09 | Y | 1 | 26.987 | 1 | 29.527 | 3 | 49.847 | | |
| 09 | Y | 1 | 52.387 | 1 | 53.977 | 2 | 61.597 | | |
| 09 | Y | 1 | 63.187 | 1 | 63.822 | 1 | 64.457 | | |
| 09 | Y | 1 | 64.51 | 3 | 70.086 | 1 | 70.715 | | |
| 09 | Y | 1 | 72.282 | 1 | 73.46925 | 2 | 74.10425 | | |
| 09 | Y | 3 | 78.23175 | 2 | 78.86675 | | | | |
| 09 | Y | 2 | 80.054 | 2 | 82.8145 | 1 | 85.0655 | | |
| 09 | Y | 2 | 87.826 | 2 | 90.5865 | 1 | 92.8375 | | |
| 09 | Y | 2 | 95.598 | 2 | 97.461 | 1 | 97.6551 | | |
| 09 | Y | 1 | 98.090 | 1 | 100.878 | 1 | 101.3130 | | |
| 09 | Y | 1 | 101.507 | | | | | | |
| 09 | Y | 2 | 103.370 | 2 | 106.1305 | 1 | 108.3815 | | |
| 09 | Y | 2 | 111.142 | 2 | 113.9025 | 1 | 116.1535 | | |
| 09 | Y | 2 | 118.914 | | | | | | |
| 09 | Y | 1 | 119.2697 | 3 | 126.3303 | 1 | 126.686 | | |
| 09 | Y | 1 | 127.0417 | 1 | 128.253 | | | | |
| 09 | Y | 1 | 128.882 | 1 | 134.1023 | | | | |
| 09 | Y | 1 | 134.458 | 1 | 134.511 | 1 | 135.146 | | |
| 09 | Y | 4 | 160.0 | | | | | | |
| 09 | Z | 2 | 13.36 | 1 | 26.22 | | | | |
| 09 | Z | 1 | 28.45 | 1 | 29.72 | | | | |
| 09 | Z | 1 | 32.26 | 1 | 34.16 | 1 | 35.75 | | |
| 09 | Z | 1 | 37.0175 | 14 | 88.690625 | 2 | 95.44 | | |
| 09 | Z | 1 | 96.0725 | | | | | | |
| 09 | Z | 1 | 97.35 | 1 | 103.38 | 1 | 107.503 | | |
| 09 | Z | 1 | 110.510 | 1 | 116.08 | 1 | 117.35 | | |
| 09 | Z | 1 | 119.89 | 2 | 137.39 | 2 | 158.94 | | |
| 13 | MEAT | U5F4 | 0 1.75523E-03U8F4 | 0 7.04193E-03ALF4 | 0 3.88984E-02 | | | | |
| 13 | MEAT | SIF4 | 0 5.94365E-03 | | | | | | |
| 13 | MEAT | FU6B | 0 1.00000E-10FP9B | 0 1.00000E-10FP0B | 0 1.00000E-10 | | | | |
| 13 | MEAT | FP1B | 0 1.00000E-10FP2B | 0 1.00000E-10FXEB | 0 1.00000E-10 | | | | |
| 13 | MEAT | FPMB | 0 1.00000E-10FSMB | 0 1.00000E-10FI5B | 0 1.00000E-10 | | | | |
| 13 | MEAT | PPF1 | 0 1.00000E-10ODUM | 0 1.00000E-10 | | | | | |
| 13 | CLAD | ALF4 | 0 6.02669E-02B10F | 0 2.98636E-07B11F | 0 1.21115E-06 | | | | |
| T=370 density in moderator | | | | | | | | | |
| 13 | MOD | HFD7 | 0 6.44452E-02OFD7 | 0 3.22226E-02 | | | | | |
| 14 | NEWF | MEAT | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | | |
| 14 | MNEW | NEWF | 1.00000 | | | | | | |

15 MNEW E3A
15 MNEW E3B
15 MNEW E3C
15 MNEW E3D
15 MNEW E7A
15 MNEW E7B
15 MNEW E7C
15 MNEW E7D
15 MNEW C3A
15 MNEW C3B
15 MNEW C3C
15 MNEW C3D
15 MNEW C7A
15 MNEW C7B
15 MNEW C7C
15 MNEW C7D

Material composition from EOC at 105 days of rbsc3-step9a run 5-2010

| | | | | | | | | | | | | | |
|----|-------|------|---|-------------|------|---|-------------|------|---|-------------|----|-----|-----------------|
| 13 | MTE3A | U5F4 | 0 | 1.67636E-03 | FU6B | 0 | 1.39298E-05 | U8F4 | 0 | 7.03477E-03 | \$ | E3A | step9a 105 days |
| 13 | MTE3A | FP9B | 0 | 2.89854E-07 | FP0B | 0 | 1.10772E-08 | FP1B | 0 | 2.34409E-06 | | | |
| 13 | MTE3A | FP2B | 0 | 1.07177E-07 | FXEB | 0 | 1.15167E-08 | FI5B | 0 | 1.75473E-08 | | | |
| 13 | MTE3A | FPMB | 0 | 2.36321E-08 | FSMB | 0 | 1.36502E-07 | PPF1 | 0 | 7.14534E-05 | | | |
| 13 | MTE3A | ODUM | 0 | 3.10848E-06 | | | | | | | | | |
| 13 | MTE3B | U5F4 | 0 | 1.63950E-03 | FU6B | 0 | 2.06349E-05 | U8F4 | 0 | 7.03060E-03 | \$ | E3B | step9a 105 days |
| 13 | MTE3B | FP9B | 0 | 4.36836E-07 | FP0B | 0 | 2.46912E-08 | FP1B | 0 | 3.95250E-06 | | | |
| 13 | MTE3B | FP2B | 0 | 2.72615E-07 | FXEB | 0 | 1.33512E-08 | FI5B | 0 | 2.56648E-08 | | | |
| 13 | MTE3B | FPMB | 0 | 3.46085E-08 | FSMB | 0 | 1.34972E-07 | PPF1 | 0 | 1.05028E-04 | | | |
| 13 | MTE3B | ODUM | 0 | 4.19805E-06 | | | | | | | | | |
| 13 | MTE3C | U5F4 | 0 | 1.63887E-03 | FU6B | 0 | 2.07413E-05 | U8F4 | 0 | 7.03060E-03 | \$ | E3C | step9a 105 days |
| 13 | MTE3C | FP9B | 0 | 4.38860E-07 | FP0B | 0 | 2.49346E-08 | FP1B | 0 | 3.97900E-06 | | | |
| 13 | MTE3C | FP2B | 0 | 2.75967E-07 | FXEB | 0 | 1.33720E-08 | FI5B | 0 | 2.57907E-08 | | | |
| 13 | MTE3C | FPMB | 0 | 3.47796E-08 | FSMB | 0 | 1.34937E-07 | PPF1 | 0 | 1.05570E-04 | | | |
| 13 | MTE3C | ODUM | 0 | 4.21509E-06 | | | | | | | | | |
| 13 | MTE3D | U5F4 | 0 | 1.67462E-03 | FU6B | 0 | 1.42434E-05 | U8F4 | 0 | 7.03477E-03 | \$ | E3D | step9a 105 days |
| 13 | MTE3D | FP9B | 0 | 2.95848E-07 | FP0B | 0 | 1.15563E-08 | FP1B | 0 | 2.41739E-06 | | | |
| 13 | MTE3D | FP2B | 0 | 1.13088E-07 | FXEB | 0 | 1.16259E-08 | FI5B | 0 | 1.79221E-08 | | | |
| 13 | MTE3D | FPMB | 0 | 2.41391E-08 | FSMB | 0 | 1.36565E-07 | PPF1 | 0 | 7.30320E-05 | | | |
| 13 | MTE3D | ODUM | 0 | 3.16120E-06 | | | | | | | | | |
| 13 | MTE4A | U5F4 | 0 | 1.52406E-03 | FU6B | 0 | 4.12524E-05 | U8F4 | 0 | 7.01947E-03 | \$ | E4A | step9a 105 days |
| 13 | MTE4A | FP9B | 0 | 8.27190E-07 | FP0B | 0 | 9.25661E-08 | FP1B | 0 | 6.38866E-06 | | | |
| 13 | MTE4A | FP2B | 0 | 9.33380E-07 | FXEB | 0 | 1.15786E-08 | FI5B | 0 | 1.97754E-08 | | | |
| 13 | MTE4A | FPMB | 0 | 2.66961E-08 | FSMB | 0 | 1.26363E-07 | PPF1 | 0 | 2.09277E-04 | | | |
| 13 | MTE4A | ODUM | 0 | 1.09068E-05 | | | | | | | | | |
| 13 | MTE4B | U5F4 | 0 | 1.42170E-03 | FU6B | 0 | 6.01453E-05 | U8F4 | 0 | 7.00695E-03 | \$ | E4B | step9a 105 days |
| 13 | MTE4B | FP9B | 0 | 1.16954E-06 | FP0B | 0 | 1.91683E-07 | FP1B | 0 | 9.91168E-06 | | | |
| 13 | MTE4B | FP2B | 0 | 2.25967E-06 | FXEB | 0 | 1.26718E-08 | FI5B | 0 | 2.81599E-08 | | | |
| 13 | MTE4B | FPMB | 0 | 3.81168E-08 | FSMB | 0 | 1.19367E-07 | PPF1 | 0 | 3.02065E-04 | | | |
| 13 | MTE4B | ODUM | 0 | 1.59478E-05 | | | | | | | | | |
| 13 | MTE4C | U5F4 | 0 | 1.42010E-03 | FU6B | 0 | 6.04367E-05 | U8F4 | 0 | 7.00695E-03 | \$ | E4C | step9a 105 days |
| 13 | MTE4C | FP9B | 0 | 1.17371E-06 | FP0B | 0 | 1.93338E-07 | FP1B | 0 | 9.96384E-06 | | | |
| 13 | MTE4C | FP2B | 0 | 2.28547E-06 | FXEB | 0 | 1.26794E-08 | FI5B | 0 | 2.82802E-08 | | | |
| 13 | MTE4C | FPMB | 0 | 3.82816E-08 | FSMB | 0 | 1.19249E-07 | PPF1 | 0 | 3.03526E-04 | | | |
| 13 | MTE4C | ODUM | 0 | 1.60341E-05 | | | | | | | | | |
| 13 | MTE4D | U5F4 | 0 | 1.51940E-03 | FU6B | 0 | 4.21099E-05 | U8F4 | 0 | 7.01878E-03 | \$ | E4D | step9a 105 days |
| 13 | MTE4D | FP9B | 0 | 8.41446E-07 | FP0B | 0 | 9.60918E-08 | FP1B | 0 | 6.55424E-06 | | | |
| 13 | MTE4D | FP2B | 0 | 9.80459E-07 | FXEB | 0 | 1.16460E-08 | FI5B | 0 | 2.01273E-08 | | | |
| 13 | MTE4D | FPMB | 0 | 2.71752E-08 | FSMB | 0 | 1.26134E-07 | PPF1 | 0 | 2.13512E-04 | | | |
| 13 | MTE4D | ODUM | 0 | 1.11175E-05 | | | | | | | | | |
| 13 | MTE5A | U5F4 | 0 | 1.49534E-03 | FU6B | 0 | 4.64159E-05 | U8F4 | 0 | 7.01669E-03 | \$ | E5A | step9a 105 days |
| 13 | MTE5A | FP9B | 0 | 8.92768E-07 | FP0B | 0 | 1.14478E-07 | FP1B | 0 | 7.40960E-06 | | | |
| 13 | MTE5A | FP2B | 0 | 1.23950E-06 | FXEB | 0 | 1.19388E-08 | FI5B | 0 | 2.20369E-08 | | | |
| 13 | MTE5A | FPMB | 0 | 2.97663E-08 | FSMB | 0 | 1.24179E-07 | PPF1 | 0 | 2.35174E-04 | | | |
| 13 | MTE5A | ODUM | 0 | 1.21780E-05 | | | | | | | | | |
| 13 | MTE5B | U5F4 | 0 | 1.38324E-03 | FU6B | 0 | 6.71975E-05 | U8F4 | 0 | 7.00209E-03 | \$ | E5B | step9a 105 days |
| 13 | MTE5B | FP9B | 0 | 1.24458E-06 | FP0B | 0 | 2.31690E-07 | FP1B | 0 | 1.11307E-05 | | | |
| 13 | MTE5B | FP2B | 0 | 2.91245E-06 | FXEB | 0 | 1.27809E-08 | FI5B | 0 | 3.08081E-08 | | | |
| 13 | MTE5B | FPMB | 0 | 4.17371E-08 | FSMB | 0 | 1.16502E-07 | PPF1 | 0 | 3.36592E-04 | | | |
| 13 | MTE5B | ODUM | 0 | 1.81224E-05 | | | | | | | | | |
| 13 | MTE5C | U5F4 | 0 | 1.38150E-03 | FU6B | 0 | 6.75250E-05 | U8F4 | 0 | 7.00209E-03 | \$ | E5C | step9a 105 days |
| 13 | MTE5C | FP9B | 0 | 1.24882E-06 | FP0B | 0 | 2.33644E-07 | FP1B | 0 | 1.11864E-05 | | | |
| 13 | MTE5C | FP2B | 0 | 2.94513E-06 | FXEB | 0 | 1.27858E-08 | FI5B | 0 | 3.09346E-08 | | | |
| 13 | MTE5C | FPMB | 0 | 4.19117E-08 | FSMB | 0 | 1.16384E-07 | PPF1 | 0 | 3.38213E-04 | | | |
| 13 | MTE5C | ODUM | 0 | 1.82295E-05 | | | | | | | | | |
| 13 | MTE5D | U5F4 | 0 | 1.49013E-03 | FU6B | 0 | 4.73693E-05 | U8F4 | 0 | 7.01530E-03 | \$ | E5D | step9a 105 days |
| 13 | MTE5D | FP9B | 0 | 9.07789E-07 | FP0B | 0 | 1.18727E-07 | FP1B | 0 | 7.58901E-06 | | | |
| 13 | MTE5D | FP2B | 0 | 1.30056E-06 | FXEB | 0 | 1.19910E-08 | FI5B | 0 | 2.23880E-08 | | | |
| 13 | MTE5D | FPMB | 0 | 3.02462E-08 | FSMB | 0 | 1.23915E-07 | PPF1 | 0 | 2.39875E-04 | | | |
| 13 | MTE5D | ODUM | 0 | 1.24228E-05 | | | | | | | | | |
| 13 | MTE6A | U5F4 | 0 | 1.58373E-03 | FU6B | 0 | 3.06029E-05 | U8F4 | 0 | 7.02503E-03 | \$ | E6A | step9a 105 days |

| | | | | | | | | | | | | | |
|----|-------|------|---|-------------|------|---|-------------|------|---|-------------|----|-----|-----------------|
| 13 | MTE6A | FP9B | 0 | 6.31377E-07 | FP0B | 0 | 5.19054E-08 | FP1B | 0 | 5.12163E-06 | | | |
| 13 | MTE6A | FP2B | 0 | 5.36697E-07 | FXEB | 0 | 1.21467E-08 | FI5B | 0 | 2.10612E-08 | | | |
| 13 | MTE6A | FPMB | 0 | 2.84145E-08 | FSMB | 0 | 1.30876E-07 | PPF1 | 0 | 1.55424E-04 | | | |
| 13 | MTE6A | ODUM | 0 | 7.35675E-06 | | | | | | | | | |
| 13 | MTE6B | U5F4 | 0 | 1.50633E-03 | FU6B | 0 | 4.49026E-05 | U8F4 | 0 | 7.01599E-03 | \$ | E6B | step9a 105 days |
| 13 | MTE6B | FP9B | 0 | 9.15160E-07 | FP0B | 0 | 1.10688E-07 | FP1B | 0 | 8.13143E-06 | | | |
| 13 | MTE6B | FP2B | 0 | 1.31161E-06 | FXEB | 0 | 1.34791E-08 | FI5B | 0 | 3.03331E-08 | | | |
| 13 | MTE6B | FPMB | 0 | 4.10139E-08 | FSMB | 0 | 1.25821E-07 | PPF1 | 0 | 2.25994E-04 | | | |
| 13 | MTE6B | ODUM | 0 | 1.04166E-05 | | | | | | | | | |
| 13 | MTE6C | U5F4 | 0 | 1.50501E-03 | FU6B | 0 | 4.51328E-05 | U8F4 | 0 | 7.01599E-03 | \$ | E6C | step9a 105 days |
| 13 | MTE6C | FP9B | 0 | 9.18915E-07 | FP0B | 0 | 1.11725E-07 | FP1B | 0 | 8.17942E-06 | | | |
| 13 | MTE6C | FP2B | 0 | 1.32733E-06 | FXEB | 0 | 1.34910E-08 | FI5B | 0 | 3.04722E-08 | | | |
| 13 | MTE6C | FPMB | 0 | 4.12051E-08 | FSMB | 0 | 1.25730E-07 | PPF1 | 0 | 2.27142E-04 | | | |
| 13 | MTE6C | ODUM | 0 | 1.04694E-05 | | | | | | | | | |
| 13 | MTE6D | U5F4 | 0 | 1.58004E-03 | FU6B | 0 | 3.12914E-05 | U8F4 | 0 | 7.02503E-03 | \$ | E6D | step9a 105 days |
| 13 | MTE6D | FP9B | 0 | 6.43526E-07 | FP0B | 0 | 5.40688E-08 | FP1B | 0 | 5.26878E-06 | | | |
| 13 | MTE6D | FP2B | 0 | 5.65953E-07 | FXEB | 0 | 1.22281E-08 | FI5B | 0 | 2.14673E-08 | | | |
| 13 | MTE6D | FPMB | 0 | 2.89659E-08 | FSMB | 0 | 1.30730E-07 | PPF1 | 0 | 1.58853E-04 | | | |
| 13 | MTE6D | ODUM | 0 | 7.49791E-06 | | | | | | | | | |
| | | | | | | | | | | | | | |
| 13 | MTE7A | U5F4 | 0 | 1.66912E-03 | FU6B | 0 | 1.52684E-05 | U8F4 | 0 | 7.03407E-03 | \$ | E7A | step9a 105 days |
| 13 | MTE7A | FP9B | 0 | 3.15730E-07 | FP0B | 0 | 1.32135E-08 | FP1B | 0 | 2.65278E-06 | | | |
| 13 | MTE7A | FP2B | 0 | 1.33275E-07 | FXEB | 0 | 1.19624E-08 | FI5B | 0 | 1.91356E-08 | | | |
| 13 | MTE7A | FPMB | 0 | 2.57789E-08 | FSMB | 0 | 1.36419E-07 | PPF1 | 0 | 7.80668E-05 | | | |
| 13 | MTE7A | ODUM | 0 | 3.32955E-06 | | | | | | | | | |
| 13 | MTE7B | U5F4 | 0 | 1.62921E-03 | FU6B | 0 | 2.25800E-05 | U8F4 | 0 | 7.02990E-03 | \$ | E7B | step9a 105 days |
| 13 | MTE7B | FP9B | 0 | 4.74374E-07 | FP0B | 0 | 2.93275E-08 | FP1B | 0 | 4.41217E-06 | | | |
| 13 | MTE7B | FP2B | 0 | 3.34402E-07 | FXEB | 0 | 1.37281E-08 | FI5B | 0 | 2.79228E-08 | | | |
| 13 | MTE7B | FPMB | 0 | 3.76683E-08 | FSMB | 0 | 1.34471E-07 | PPF1 | 0 | 1.14499E-04 | | | |
| 13 | MTE7B | ODUM | 0 | 4.50730E-06 | | | | | | | | | |
| 13 | MTE7C | U5F4 | 0 | 1.62851E-03 | FU6B | 0 | 2.27024E-05 | U8F4 | 0 | 7.02990E-03 | \$ | E7C | step9a 105 days |
| 13 | MTE7C | FP9B | 0 | 4.76676E-07 | FP0B | 0 | 2.96314E-08 | FP1B | 0 | 4.44263E-06 | | | |
| 13 | MTE7C | FP2B | 0 | 3.38693E-07 | FXEB | 0 | 1.37490E-08 | FI5B | 0 | 2.80675E-08 | | | |
| 13 | MTE7C | FPMB | 0 | 3.78644E-08 | FSMB | 0 | 1.34423E-07 | PPF1 | 0 | 1.15125E-04 | | | |
| 13 | MTE7C | ODUM | 0 | 4.52705E-06 | | | | | | | | | |
| 13 | MTE7D | U5F4 | 0 | 1.66704E-03 | FU6B | 0 | 1.56495E-05 | U8F4 | 0 | 7.03407E-03 | \$ | E7D | step9a 105 days |
| 13 | MTE7D | FP9B | 0 | 3.22747E-07 | FP0B | 0 | 1.38394E-08 | FP1B | 0 | 2.74332E-06 | | | |
| 13 | MTE7D | FP2B | 0 | 1.41391E-07 | FXEB | 0 | 1.20807E-08 | FI5B | 0 | 1.95911E-08 | | | |
| 13 | MTE7D | FPMB | 0 | 2.63950E-08 | FSMB | 0 | 1.36439E-07 | PPF1 | 0 | 7.99861E-05 | | | |
| 13 | MTE7D | ODUM | 0 | 3.39242E-06 | | | | | | | | | |
| | | | | | | | | | | | | | |
| 13 | MTD3A | U5F4 | 0 | 1.60362E-03 | FU6B | 0 | 2.69743E-05 | U8F4 | 0 | 7.02782E-03 | \$ | D3A | step9a 105 days |
| 13 | MTD3A | FP9B | 0 | 5.61885E-07 | FP0B | 0 | 4.06898E-08 | FP1B | 0 | 4.33630E-06 | | | |
| 13 | MTD3A | FP2B | 0 | 3.98873E-07 | FXEB | 0 | 1.14645E-08 | FI5B | 0 | 1.80946E-08 | | | |
| 13 | MTD3A | FPMB | 0 | 2.43971E-08 | FSMB | 0 | 1.32656E-07 | PPF1 | 0 | 1.37378E-04 | | | |
| 13 | MTD3A | ODUM | 0 | 6.62399E-06 | | | | | | | | | |
| 13 | MTD3B | U5F4 | 0 | 1.53470E-03 | FU6B | 0 | 3.96405E-05 | U8F4 | 0 | 7.01947E-03 | \$ | D3B | step9a 105 days |
| 13 | MTD3B | FP9B | 0 | 8.22879E-07 | FP0B | 0 | 8.76634E-08 | FP1B | 0 | 7.03547E-06 | | | |
| 13 | MTD3B | FP2B | 0 | 9.90542E-07 | FXEB | 0 | 1.29771E-08 | FI5B | 0 | 2.60994E-08 | | | |
| 13 | MTD3B | FPMB | 0 | 3.52587E-08 | FSMB | 0 | 1.28199E-07 | PPF1 | 0 | 2.00146E-04 | | | |
| 13 | MTD3B | ODUM | 0 | 9.25800E-06 | | | | | | | | | |
| 13 | MTD3C | U5F4 | 0 | 1.53352E-03 | FU6B | 0 | 3.98401E-05 | U8F4 | 0 | 7.01947E-03 | \$ | D3C | step9a 105 days |
| 13 | MTD3C | FP9B | 0 | 8.26286E-07 | FP0B | 0 | 8.84771E-08 | FP1B | 0 | 7.07858E-06 | | | |
| 13 | MTD3C | FP2B | 0 | 1.00236E-06 | FXEB | 0 | 1.29923E-08 | FI5B | 0 | 2.62225E-08 | | | |
| 13 | MTD3C | FPMB | 0 | 3.54263E-08 | FSMB | 0 | 1.28122E-07 | PPF1 | 0 | 2.01154E-04 | | | |
| 13 | MTD3C | ODUM | 0 | 9.30181E-06 | | | | | | | | | |
| 13 | MTD3D | U5F4 | 0 | 1.60042E-03 | FU6B | 0 | 2.75654E-05 | U8F4 | 0 | 7.02712E-03 | \$ | D3D | step9a 105 days |
| 13 | MTD3D | FP9B | 0 | 5.72684E-07 | FP0B | 0 | 4.23700E-08 | FP1B | 0 | 4.46252E-06 | | | |
| 13 | MTD3D | FP2B | 0 | 4.20188E-07 | FXEB | 0 | 1.15577E-08 | FI5B | 0 | 1.84611E-08 | | | |
| 13 | MTD3D | FPMB | 0 | 2.48936E-08 | FSMB | 0 | 1.32538E-07 | PPF1 | 0 | 1.40327E-04 | | | |
| 13 | MTD3D | ODUM | 0 | 6.74444E-06 | | | | | | | | | |
| | | | | | | | | | | | | | |
| 13 | MTD4A | U5F4 | 0 | 1.44611E-03 | FU6B | 0 | 5.55014E-05 | U8F4 | 0 | 7.01043E-03 | \$ | D4A | step9a 105 days |
| 13 | MTD4A | FP9B | 0 | 1.07462E-06 | FP0B | 0 | 1.61433E-07 | FP1B | 0 | 8.21905E-06 | | | |
| 13 | MTD4A | FP2B | 0 | 1.68505E-06 | FXEB | 0 | 1.15348E-08 | FI5B | 0 | 2.08519E-08 | | | |
| 13 | MTD4A | FPMB | 0 | 2.81857E-08 | FSMB | 0 | 1.21495E-07 | PPF1 | 0 | 2.79715E-04 | | | |
| 13 | MTD4A | ODUM | 0 | 1.57942E-05 | | | | | | | | | |
| 13 | MTD4B | U5F4 | 0 | 1.31530E-03 | FU6B | 0 | 7.99235E-05 | U8F4 | 0 | 6.99305E-03 | \$ | D4B | step9a 105 days |
| 13 | MTD4B | FP9B | 0 | 1.47086E-06 | FP0B | 0 | 3.17643E-07 | FP1B | 0 | 1.21085E-05 | | | |
| 13 | MTD4B | FP2B | 0 | 3.93060E-06 | FXEB | 0 | 1.22031E-08 | FI5B | 0 | 2.87775E-08 | | | |
| 13 | MTD4B | FPMB | 0 | 3.90264E-08 | FSMB | 0 | 1.12232E-07 | PPF1 | 0 | 3.97552E-04 | | | |
| 13 | MTD4B | ODUM | 0 | 2.42872E-05 | | | | | | | | | |
| 13 | MTD4C | U5F4 | 0 | 1.31321E-03 | FU6B | 0 | 8.02990E-05 | U8F4 | 0 | 6.99305E-03 | \$ | D4C | step9a 105 days |
| 13 | MTD4C | FP9B | 0 | 1.47538E-06 | FP0B | 0 | 3.20146E-07 | FP1B | 0 | 1.21634E-05 | | | |
| 13 | MTD4C | FP2B | 0 | 3.97337E-06 | FXEB | 0 | 1.22045E-08 | FI5B | 0 | 2.88915E-08 | | | |
| 13 | MTD4C | FPMB | 0 | 3.91836E-08 | FSMB | 0 | 1.12079E-07 | PPF1 | 0 | 3.99367E-04 | | | |
| 13 | MTD4C | ODUM | 0 | 2.44409E-05 | | | | | | | | | |
| 13 | MTD4D | U5F4 | 0 | 1.44033E-03 | FU6B | 0 | 5.65737E-05 | U8F4 | 0 | 7.00974E-03 | \$ | D4D | step9a 105 days |
| 13 | MTD4D | FP9B | 0 | 1.09138E-06 | FP0B | 0 | 1.66975E-07 | FP1B | 0 | 8.40195E-06 | | | |
| 13 | MTD4D | FP2B | 0 | 1.76335E-06 | FXEB | 0 | 1.15779E-08 | FI5B | 0 | 2.11565E-08 | | | |
| 13 | MTD4D | FPMB | 0 | 2.86022E-08 | FSMB | 0 | 1.21182E-07 | PPF1 | 0 | 2.84937E-04 | | | |

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|----|-------|------|---|-------------|------|---|-------------|--------------------|
| 13 | MTD4D | ODUM | 0 | 1.61161E-05 | | | | |
| | | | | | | | | |
| 13 | MTD6A | U5F4 | 0 | 1.42865E-03 | FU6B | 0 | 5.88755E-05 | U8F4 0 7.00765E-03 |
| 13 | MTD6A | FP9B | 0 | 1.12775E-06 | FP0B | 0 | 1.79923E-07 | FP1B 0 8.76704E-06 |
| 13 | MTD6A | FP2B | 0 | 1.93338E-06 | FXEB | 0 | 1.16280E-08 | FI5B 0 2.16843E-08 |
| 13 | MTD6A | FPMB | 0 | 2.93227E-08 | FMSB | 0 | 1.20223E-07 | PFP1 0 2.95675E-04 |
| 13 | MTD6A | ODUM | 0 | 1.67983E-05 | | | | |
| 13 | MTD6B | U5F4 | 0 | 1.29228E-03 | FU6B | 0 | 8.45271E-05 | U8F4 0 6.98957E-03 |
| 13 | MTD6B | FP9B | 0 | 1.53046E-06 | FP0B | 0 | 3.49917E-07 | FP1B 0 1.27058E-05 |
| 13 | MTD6B | FP2B | 0 | 4.44033E-06 | FXEB | 0 | 1.21885E-08 | FI5B 0 2.98248E-08 |
| 13 | MTD6B | FPMB | 0 | 4.04701E-08 | FMSB | 0 | 1.10501E-07 | PFP1 0 4.18498E-04 |
| 13 | MTD6B | ODUM | 0 | 2.61836E-05 | | | | |
| 13 | MTD6C | U5F4 | 0 | 1.29013E-03 | FU6B | 0 | 8.49374E-05 | U8F4 0 6.98957E-03 |
| 13 | MTD6C | FP9B | 0 | 1.53505E-06 | FP0B | 0 | 3.52705E-07 | FP1B 0 1.27629E-05 |
| 13 | MTD6C | FP2B | 0 | 4.48978E-06 | FXEB | 0 | 1.21892E-08 | FI5B 0 2.99451E-08 |
| 13 | MTD6C | FPMB | 0 | 4.06363E-08 | FMSB | 0 | 1.10341E-07 | PFP1 0 4.20487E-04 |
| 13 | MTD6C | ODUM | 0 | 2.63623E-05 | | | | |
| 13 | MTD6D | U5F4 | 0 | 1.42211E-03 | FU6B | 0 | 6.01043E-05 | U8F4 0 7.00765E-03 |
| 13 | MTD6D | FP9B | 0 | 1.14604E-06 | FP0B | 0 | 1.86474E-07 | FP1B 0 8.97288E-06 |
| 13 | MTD6D | FP2B | 0 | 2.03004E-06 | FXEB | 0 | 1.16690E-08 | FI5B 0 2.20195E-08 |
| 13 | MTD6D | FPMB | 0 | 2.97809E-08 | FMSB | 0 | 1.19854E-07 | PFP1 0 3.01634E-04 |
| 13 | MTD6D | ODUM | 0 | 1.71801E-05 | | | | |
| | | | | | | | | |
| 13 | MTD7A | U5F4 | 0 | 1.59159E-03 | FU6B | 0 | 2.93602E-05 | U8F4 0 7.02573E-03 |
| 13 | MTD7A | FP9B | 0 | 6.10960E-07 | FP0B | 0 | 4.78303E-08 | FP1B 0 4.80911E-06 |
| 13 | MTD7A | FP2B | 0 | 4.83150E-07 | FXEB | 0 | 1.18581E-08 | FI5B 0 1.95612E-08 |
| 13 | MTD7A | FPMB | 0 | 2.63860E-08 | FMSB | 0 | 1.32357E-07 | PFP1 0 1.48547E-04 |
| 13 | MTD7A | ODUM | 0 | 7.10570E-06 | | | | |
| 13 | MTD7B | U5F4 | 0 | 1.51857E-03 | FU6B | 0 | 4.29541E-05 | U8F4 0 7.01739E-03 |
| 13 | MTD7B | FP9B | 0 | 8.89152E-07 | FP0B | 0 | 1.01627E-07 | FP1B 0 7.65925E-06 |
| 13 | MTD7B | FP2B | 0 | 1.17615E-06 | FXEB | 0 | 1.32691E-08 | FI5B 0 2.79694E-08 |
| 13 | MTD7B | FPMB | 0 | 3.78067E-08 | FMSB | 0 | 1.27643E-07 | PFP1 0 2.15243E-04 |
| 13 | MTD7B | ODUM | 0 | 9.98957E-06 | | | | |
| 13 | MTD7C | U5F4 | 0 | 1.51739E-03 | FU6B | 0 | 4.31822E-05 | U8F4 0 7.01669E-03 |
| 13 | MTD7C | FP9B | 0 | 8.92907E-07 | FP0B | 0 | 1.02608E-07 | FP1B 0 7.70723E-06 |
| 13 | MTD7C | FP2B | 0 | 1.19082E-06 | FXEB | 0 | 1.32844E-08 | FI5B 0 2.81092E-08 |
| 13 | MTD7C | FPMB | 0 | 3.79972E-08 | FMSB | 0 | 1.27559E-07 | PFP1 0 2.16377E-04 |
| 13 | MTD7C | ODUM | 0 | 1.00410E-05 | | | | |
| 13 | MTD7D | U5F4 | 0 | 1.58776E-03 | FU6B | 0 | 3.00730E-05 | U8F4 0 7.02503E-03 |
| 13 | MTD7D | FP9B | 0 | 6.23519E-07 | FP0B | 0 | 4.99826E-08 | FP1B 0 4.96106E-06 |
| 13 | MTD7D | FP2B | 0 | 5.11627E-07 | FXEB | 0 | 1.19583E-08 | FI5B 0 2.00014E-08 |
| 13 | MTD7D | FPMB | 0 | 2.69833E-08 | FMSB | 0 | 1.32197E-07 | PFP1 0 1.52079E-04 |
| 13 | MTD7D | ODUM | 0 | 7.25174E-06 | | | | |
| | | | | | | | | |
| 13 | MTC3A | U5F4 | 0 | 1.67622E-03 | FU6B | 0 | 1.39548E-05 | U8F4 0 7.03477E-03 |
| 13 | MTC3A | FP9B | 0 | 2.91113E-07 | FP0B | 0 | 1.11439E-08 | FP1B 0 2.34882E-06 |
| 13 | MTC3A | FP2B | 0 | 1.07566E-07 | FXEB | 0 | 1.15271E-08 | FI5B 0 1.75772E-08 |
| 13 | MTC3A | FPMB | 0 | 2.36725E-08 | FMSB | 0 | 1.36523E-07 | PFP1 0 7.15577E-05 |
| 13 | MTC3A | ODUM | 0 | 3.11252E-06 | | | | |
| 13 | MTC3B | U5F4 | 0 | 1.63936E-03 | FU6B | 0 | 2.06752E-05 | U8F4 0 7.03060E-03 |
| 13 | MTC3B | FP9B | 0 | 4.39235E-07 | FP0B | 0 | 2.48693E-08 | FP1B 0 3.95960E-06 |
| 13 | MTC3B | FP2B | 0 | 2.73560E-07 | FXEB | 0 | 1.33630E-08 | FI5B 0 2.57121E-08 |
| 13 | MTC3B | FPMB | 0 | 3.46725E-08 | FMSB | 0 | 1.34993E-07 | PFP1 0 1.05181E-04 |
| 13 | MTC3B | ODUM | 0 | 4.20417E-06 | | | | |
| 13 | MTC3C | U5F4 | 0 | 1.63873E-03 | FU6B | 0 | 2.07816E-05 | U8F4 0 7.03060E-03 |
| 13 | MTC3C | FP9B | 0 | 4.41280E-07 | FP0B | 0 | 2.51154E-08 | FP1B 0 3.98616E-06 |
| 13 | MTC3C | FP2B | 0 | 2.76926E-07 | FXEB | 0 | 1.33839E-08 | FI5B 0 2.58387E-08 |
| 13 | MTC3C | FPMB | 0 | 3.48442E-08 | FMSB | 0 | 1.34958E-07 | PFP1 0 1.05723E-04 |
| 13 | MTC3C | ODUM | 0 | 4.22135E-06 | | | | |
| 13 | MTC3D | U5F4 | 0 | 1.67448E-03 | FU6B | 0 | 1.42691E-05 | U8F4 0 7.03477E-03 |
| 13 | MTC3D | FP9B | 0 | 2.97156E-07 | FP0B | 0 | 1.16273E-08 | FP1B 0 2.42225E-06 |
| 13 | MTC3D | FP2B | 0 | 1.13498E-07 | FXEB | 0 | 1.16363E-08 | FI5B 0 1.79534E-08 |
| 13 | MTC3D | FPMB | 0 | 2.41808E-08 | FMSB | 0 | 1.36586E-07 | PFP1 0 7.31363E-05 |
| 13 | MTC3D | ODUM | 0 | 3.16530E-06 | | | | |
| | | | | | | | | |
| 13 | MTC4A | U5F4 | 0 | 1.59402E-03 | FU6B | 0 | 2.87337E-05 | U8F4 0 7.02643E-03 |
| 13 | MTC4A | FP9B | 0 | 5.98846E-07 | FP0B | 0 | 4.62357E-08 | FP1B 0 4.72510E-06 |
| 13 | MTC4A | FP2B | 0 | 4.59861E-07 | FXEB | 0 | 1.19889E-08 | FI5B 0 2.02267E-08 |
| 13 | MTC4A | FPMB | 0 | 2.72809E-08 | FMSB | 0 | 1.31592E-07 | PFP1 0 1.46134E-04 |
| 13 | MTC4A | ODUM | 0 | 6.97427E-06 | | | | |
| 13 | MTC4B | U5F4 | 0 | 1.52072E-03 | FU6B | 0 | 4.22163E-05 | U8F4 0 7.01808E-03 |
| 13 | MTC4B | FP9B | 0 | 8.72323E-07 | FP0B | 0 | 9.91933E-08 | FP1B 0 7.58762E-06 |
| 13 | MTC4B | FP2B | 0 | 1.13609E-06 | FXEB | 0 | 1.33943E-08 | FI5B 0 2.91732E-08 |
| 13 | MTC4B | FPMB | 0 | 3.94305E-08 | FMSB | 0 | 1.26843E-07 | PFP1 0 2.12816E-04 |
| 13 | MTC4B | ODUM | 0 | 9.81572E-06 | | | | |
| 13 | MTC4C | U5F4 | 0 | 1.51961E-03 | FU6B | 0 | 4.24249E-05 | U8F4 0 7.01808E-03 |
| 13 | MTC4C | FP9B | 0 | 8.75869E-07 | FP0B | 0 | 1.00090E-07 | FP1B 0 7.63213E-06 |
| 13 | MTC4C | FP2B | 0 | 1.14937E-06 | FXEB | 0 | 1.34068E-08 | FI5B 0 2.93039E-08 |
| 13 | MTC4C | FPMB | 0 | 3.96092E-08 | FMSB | 0 | 1.26759E-07 | PFP1 0 2.13860E-04 |
| 13 | MTC4C | ODUM | 0 | 9.86161E-06 | | | | |
| 13 | MTC4D | U5F4 | 0 | 1.59068E-03 | FU6B | 0 | 2.93338E-05 | U8F4 0 7.02643E-03 |

| | | | | | | | | | | | | |
|----|---|------|------|-------------|-------------|---|-------------|------|---|-------------|----|---------------------|
| 13 | MTC4D | FP9B | 0 | 6.09854E-07 | FP0B | 0 | 4.80542E-08 | FP1B | 0 | 4.85334E-06 | | |
| 13 | MTC4D | FP2B | 0 | 4.83220E-07 | FXEB | 0 | 1.20695E-08 | FI5B | 0 | 2.06001E-08 | | |
| 13 | MTC4D | FPMB | 0 | 2.77879E-08 | FSMB | 0 | 1.31474E-07 | PFP1 | 0 | 1.49117E-04 | | |
| 13 | MTC4D | ODUM | 0 | 7.09666E-06 | | | | | | | | |
| 13 | MTC5A | U5F4 | 0 | 1.50494E-03 | FU6B | 0 | 4.46530E-05 | U8F4 | 0 | 7.01739E-03 | \$ | C5A step9a 105 days |
| 13 | MTC5A | FP9B | 0 | 8.66203E-07 | FP0B | 0 | 1.06919E-07 | FP1B | 0 | 7.08762E-06 | | |
| 13 | MTC5A | FP2B | 0 | 1.12385E-06 | FXEB | 0 | 1.19910E-08 | FI5B | 0 | 2.20716E-08 | | |
| 13 | MTC5A | FPMB | 0 | 2.98088E-08 | FSMB | 0 | 1.24875E-07 | PFP1 | 0 | 2.26453E-04 | | |
| 13 | MTC5A | ODUM | 0 | 1.17288E-05 | | | | | | | | |
| 13 | MTC5B | U5F4 | 0 | 1.39659E-03 | FU6B | 0 | 6.47191E-05 | U8F4 | 0 | 7.00417E-03 | \$ | C5B step9a 105 days |
| 13 | MTC5B | FP9B | 0 | 1.21293E-06 | FP0B | 0 | 2.17559E-07 | FP1B | 0 | 1.07385E-05 | | |
| 13 | MTC5B | FP2B | 0 | 2.66266E-06 | FXEB | 0 | 1.28776E-08 | FI5B | 0 | 3.09193E-08 | | |
| 13 | MTC5B | FPMB | 0 | 4.18776E-08 | FSMB | 0 | 1.17497E-07 | PFP1 | 0 | 3.24576E-04 | | |
| 13 | MTC5B | ODUM | 0 | 1.73296E-05 | | | | | | | | |
| 13 | MTC5C | U5F4 | 0 | 1.39492E-03 | FU6B | 0 | 6.50243E-05 | U8F4 | 0 | 7.00417E-03 | \$ | C5C step9a 105 days |
| 13 | MTC5C | FP9B | 0 | 1.21704E-06 | FP0B | 0 | 2.19367E-07 | FP1B | 0 | 1.07914E-05 | | |
| 13 | MTC5C | FP2B | 0 | 2.69207E-06 | FXEB | 0 | 1.28825E-08 | FI5B | 0 | 3.10473E-08 | | |
| 13 | MTC5C | FPMB | 0 | 4.20535E-08 | FSMB | 0 | 1.17371E-07 | PFP1 | 0 | 3.26106E-04 | | |
| 13 | MTC5C | ODUM | 0 | 1.74270E-05 | | | | | | | | |
| 13 | MTC5D | U5F4 | 0 | 1.50021E-03 | FU6B | 0 | 4.55271E-05 | U8F4 | 0 | 7.01669E-03 | \$ | C5D step9a 105 days |
| 13 | MTC5D | FP9B | 0 | 8.80389E-07 | FP0B | 0 | 1.10744E-07 | FP1B | 0 | 7.25382E-06 | | |
| 13 | MTC5D | FP2B | 0 | 1.17656E-06 | FXEB | 0 | 1.20466E-08 | FI5B | 0 | 2.24277E-08 | | |
| 13 | MTC5D | FPMB | 0 | 3.02935E-08 | FSMB | 0 | 1.24652E-07 | PFP1 | 0 | 2.30751E-04 | | |
| 13 | MTC5D | ODUM | 0 | 1.19492E-05 | | | | | | | | |
| 13 | MTC6A | U5F4 | 0 | 1.50967E-03 | FU6B | 0 | 4.40675E-05 | U8F4 | 0 | 7.01739E-03 | \$ | C6A step9a 105 days |
| 13 | MTC6A | FP9B | 0 | 8.77469E-07 | FP0B | 0 | 1.04889E-07 | FP1B | 0 | 6.89736E-06 | | |
| 13 | MTC6A | FP2B | 0 | 1.08853E-06 | FXEB | 0 | 1.16801E-08 | FI5B | 0 | 2.04645E-08 | | |
| 13 | MTC6A | FPMB | 0 | 2.76363E-08 | FSMB | 0 | 1.25348E-07 | PFP1 | 0 | 2.22594E-04 | | |
| 13 | MTC6A | ODUM | 0 | 1.15932E-05 | | | | | | | | |
| 13 | MTC6B | U5F4 | 0 | 1.40229E-03 | FU6B | 0 | 6.40362E-05 | U8F4 | 0 | 7.00417E-03 | \$ | C6B step9a 105 days |
| 13 | MTC6B | FP9B | 0 | 1.23171E-06 | FP0B | 0 | 2.14847E-07 | FP1B | 0 | 1.05299E-05 | | |
| 13 | MTC6B | FP2B | 0 | 2.59152E-06 | FXEB | 0 | 1.26871E-08 | FI5B | 0 | 2.90716E-08 | | |
| 13 | MTC6B | FPMB | 0 | 3.93700E-08 | FSMB | 0 | 1.17969E-07 | PFP1 | 0 | 3.19944E-04 | | |
| 13 | MTC6B | ODUM | 0 | 1.71120E-05 | | | | | | | | |
| 13 | MTC6C | U5F4 | 0 | 1.40056E-03 | FU6B | 0 | 6.43588E-05 | U8F4 | 0 | 7.00417E-03 | \$ | C6C step9a 105 days |
| 13 | MTC6C | FP9B | 0 | 1.23616E-06 | FP0B | 0 | 2.16739E-07 | FP1B | 0 | 1.05862E-05 | | |
| 13 | MTC6C | FP2B | 0 | 2.62197E-06 | FXEB | 0 | 1.26933E-08 | FI5B | 0 | 2.91975E-08 | | |
| 13 | MTC6C | FPMB | 0 | 3.95431E-08 | FSMB | 0 | 1.17844E-07 | PFP1 | 0 | 3.21544E-04 | | |
| 13 | MTC6C | ODUM | 0 | 1.72135E-05 | | | | | | | | |
| 13 | MTC6D | U5F4 | 0 | 1.50424E-03 | FU6B | 0 | 4.50605E-05 | U8F4 | 0 | 7.01669E-03 | \$ | C6D step9a 105 days |
| 13 | MTC6D | FP9B | 0 | 8.93324E-07 | FP0B | 0 | 1.09152E-07 | FP1B | 0 | 7.08693E-06 | | |
| 13 | MTC6D | FP2B | 0 | 1.14791E-06 | FXEB | 0 | 1.17455E-08 | FI5B | 0 | 2.08414E-08 | | |
| 13 | MTC6D | FPMB | 0 | 2.81502E-08 | FSMB | 0 | 1.25070E-07 | PFP1 | 0 | 2.27483E-04 | | |
| 13 | MTC6D | ODUM | 0 | 1.18421E-05 | | | | | | | | |
| 13 | MTC7A | U5F4 | 0 | 1.67017E-03 | FU6B | 0 | 1.50869E-05 | U8F4 | 0 | 7.03407E-03 | \$ | C7A step9a 105 days |
| 13 | MTC7A | FP9B | 0 | 3.12399E-07 | FP0B | 0 | 1.29200E-08 | FP1B | 0 | 2.60925E-06 | | |
| 13 | MTC7A | FP2B | 0 | 1.29458E-07 | FXEB | 0 | 1.19033E-08 | FI5B | 0 | 1.89089E-08 | | |
| 13 | MTC7A | FPMB | 0 | 2.54729E-08 | FSMB | 0 | 1.36460E-07 | PFP1 | 0 | 7.71488E-05 | | |
| 13 | MTC7A | ODUM | 0 | 3.29951E-06 | | | | | | | | |
| 13 | MTC7B | U5F4 | 0 | 1.63060E-03 | FU6B | 0 | 2.23248E-05 | U8F4 | 0 | 7.02990E-03 | \$ | C7B step9a 105 days |
| 13 | MTC7B | FP9B | 0 | 4.69103E-07 | FP0B | 0 | 2.86752E-08 | FP1B | 0 | 4.35070E-06 | | |
| 13 | MTC7B | FP2B | 0 | 3.25800E-07 | FXEB | 0 | 1.36794E-08 | FI5B | 0 | 2.76092E-08 | | |
| 13 | MTC7B | FPMB | 0 | 3.72441E-08 | FSMB | 0 | 1.34548E-07 | PFP1 | 0 | 1.13241E-04 | | |
| 13 | MTC7B | ODUM | 0 | 4.46648E-06 | | | | | | | | |
| 13 | MTC7C | U5F4 | 0 | 1.62990E-03 | FU6B | 0 | 2.24451E-05 | U8F4 | 0 | 7.02990E-03 | \$ | C7C step9a 105 days |
| 13 | MTC7C | FP9B | 0 | 4.71370E-07 | FP0B | 0 | 2.89708E-08 | FP1B | 0 | 4.38074E-06 | | |
| 13 | MTC7C | FP2B | 0 | 3.29972E-07 | FXEB | 0 | 1.37003E-08 | FI5B | 0 | 2.77517E-08 | | |
| 13 | MTC7C | FPMB | 0 | 3.74374E-08 | FSMB | 0 | 1.34506E-07 | PFP1 | 0 | 1.13853E-04 | | |
| 13 | MTC7C | ODUM | 0 | 4.48588E-06 | | | | | | | | |
| 13 | MTC7D | U5F4 | 0 | 1.66808E-03 | FU6B | 0 | 1.54631E-05 | U8F4 | 0 | 7.03407E-03 | \$ | C7D step9a 105 days |
| 13 | MTC7D | FP9B | 0 | 3.19318E-07 | FP0B | 0 | 1.35306E-08 | FP1B | 0 | 2.69847E-06 | | |
| 13 | MTC7D | FP2B | 0 | 1.37344E-07 | FXEB | 0 | 1.20216E-08 | FI5B | 0 | 1.93588E-08 | | |
| 13 | MTC7D | FPMB | 0 | 2.60807E-08 | FSMB | 0 | 1.36481E-07 | PFP1 | 0 | 7.90403E-05 | | |
| 13 | MTC7D | ODUM | 0 | 3.36175E-06 | | | | | | | | |
| 01 | water in Be, G and Radiation Basket different from Ken's setup 9/98 | | | | | | | | | | | |
| 13 | FALSI | ALF4 | 0 | 3.88984E-02 | SIF4 | 0 | 5.94365E-03 | | | | | |
| 13 | H2OBE | BE-H | 0 | 6.68610E-02 | BE-O | 0 | 3.34305E-02 | | | | | |
| 13 | H2OG | G-H | 0 | 6.68610E-02 | G-O | 0 | 3.34305E-02 | | | | | |
| 13 | H2ORB | RB-H | 0 | 6.68610E-02 | RB-O | 0 | 3.34305E-02 | | | | | |
| 13 | H2OR | HH2O | 0 | 6.68610E-02 | OH2O | 0 | 3.34305E-02 | | | | | |
| 01 | different Graphite density 9/98 | | | | | | | | | | | |
| 01 | 13 | GRAF | GRAF | 0 | 8.52340E-02 | | | | | | | |
| 13 | GRAF | GRAF | 0 | 8.02300E-02 | | | | | | | | |
| 13 | H2OS | HS4 | 0 | 6.68610E-02 | OS4 | 0 | 3.34305E-02 | | | | | |
| 13 | H2OCR | CRH | 0 | 6.68610E-02 | CRO | 0 | 3.34305E-02 | | | | | |
| 13 | ALS | ALS4 | 0 | 6.02669E-02 | B10S | 0 | 2.98636E-07 | B11S | 0 | 1.21115E-06 | | |

| | | | | | | | | |
|----|------|-------|---------|-----------------|---------|-----------------|---------|-------------|
| 13 | ALCR | CRAL | 0 | 6.02669E-02B10S | 0 | 2.98636E-07B11S | 0 | 1.21115E-06 |
| 13 | ALB | ALB | 0 | 6.02669E-02B10B | 0 | 2.98636E-07B11B | 0 | 1.21115E-06 |
| 13 | ALBX | ALB | 0 | 5.60774E-02SIB | 0 | 4.06809E-03MGB | 0 | 2.01411E-04 |
| 13 | LEAD | PBS | 0 | 3.29620E-02 | | | | |
| 13 | BE | BET | 0 | 1.23640E-01 | | | | |
| 13 | ALP | ALT | 0 | 6.02669E-02 | | | | |
| 14 | FE3A | MTE3A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE3A | FALSI | 0.14380 | | | | | |
| 14 | FE3B | MTE3B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE3B | FALSI | 0.14380 | | | | | |
| 14 | FE3C | MTE3C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE3C | FALSI | 0.14380 | | | | | |
| 14 | FE3D | MTE3D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE3D | FALSI | 0.14380 | | | | | |
| 14 | FE7A | MTE7A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE7A | FALSI | 0.14380 | | | | | |
| 14 | FE7B | MTE7B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE7B | FALSI | 0.14380 | | | | | |
| 14 | FE7C | MTE7C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE7C | FALSI | 0.14380 | | | | | |
| 14 | FE7D | MTE7D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE7D | FALSI | 0.14380 | | | | | |
| 14 | FC3A | MTC3A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC3A | FALSI | 0.14380 | | | | | |
| 14 | FC3B | MTC3B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC3B | FALSI | 0.14380 | | | | | |
| 14 | FC3C | MTC3C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC3C | FALSI | 0.14380 | | | | | |
| 14 | FC3D | MTC3D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC3D | FALSI | 0.14380 | | | | | |
| 14 | FC7A | MTC7A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC7A | FALSI | 0.14380 | | | | | |
| 14 | FC7B | MTC7B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC7B | FALSI | 0.14380 | | | | | |
| 14 | FC7C | MTC7C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC7C | FALSI | 0.14380 | | | | | |
| 14 | FC7D | MTC7D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FC7D | FALSI | 0.14380 | | | | | |
| 14 | FE4A | MTE4A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE4A | FALSI | 0.14380 | | | | | |
| 14 | FE4B | MTE4B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE4B | FALSI | 0.14380 | | | | | |
| 14 | FE4C | MTE4C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE4C | FALSI | 0.14380 | | | | | |
| 14 | FE4D | MTE4D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE4D | FALSI | 0.14380 | | | | | |
| 14 | FE5A | MTE5A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE5A | FALSI | 0.14380 | | | | | |
| 14 | FE5B | MTE5B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE5B | FALSI | 0.14380 | | | | | |
| 14 | FE5C | MTE5C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE5C | FALSI | 0.14380 | | | | | |
| 14 | FE5D | MTE5D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE5D | FALSI | 0.14380 | | | | | |
| 14 | FE6A | MTE6A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE6A | FALSI | 0.14380 | | | | | |
| 14 | FE6B | MTE6B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE6B | FALSI | 0.14380 | | | | | |
| 14 | FE6C | MTE6C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE6C | FALSI | 0.14380 | | | | | |
| 14 | FE6D | MTE6D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FE6D | FALSI | 0.14380 | | | | | |
| 14 | FD3A | MTD3A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FD3A | FALSI | 0.14380 | | | | | |
| 14 | FD3B | MTD3B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FD3B | FALSI | 0.14380 | | | | | |
| 14 | FD3C | MTD3C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FD3C | FALSI | 0.14380 | | | | | |
| 14 | FD3D | MTD3D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FD3D | FALSI | 0.14380 | | | | | |
| 14 | FD4A | MTD4A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FD4A | FALSI | 0.14380 | | | | | |
| 14 | FD4B | MTD4B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |
| 14 | FD4B | FALSI | 0.14380 | | | | | |
| 14 | FD4C | MTD4C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 | |

| | | | | | | | |
|----|------|-------|---------|------|---------|-----|---------|
| 14 | FD4C | FALSI | 0.14380 | | | | |
| 14 | FD4D | MTD4D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD4D | FALSI | 0.14380 | | | | |
| 14 | FD6A | MTD6A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD6A | FALSI | 0.14380 | | | | |
| 14 | FD6B | MTD6B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD6B | FALSI | 0.14380 | | | | |
| 14 | FD6C | MTD6C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD6C | FALSI | 0.14380 | | | | |
| 14 | FD6D | MTD6D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD6D | FALSI | 0.14380 | | | | |
| 14 | FD7A | MTD7A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD7A | FALSI | 0.14380 | | | | |
| 14 | FD7B | MTD7B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD7B | FALSI | 0.14380 | | | | |
| 14 | FD7C | MTD7C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD7C | FALSI | 0.14380 | | | | |
| 14 | FD7D | MTD7D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FD7D | FALSI | 0.14380 | | | | |
| 14 | FC4A | MTC4A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC4A | FALSI | 0.14380 | | | | |
| 14 | FC4B | MTC4B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC4B | FALSI | 0.14380 | | | | |
| 14 | FC4C | MTC4C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC4C | FALSI | 0.14380 | | | | |
| 14 | FC4D | MTC4D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC4D | FALSI | 0.14380 | | | | |
| 14 | FC5A | MTC5A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC5A | FALSI | 0.14380 | | | | |
| 14 | FC5B | MTC5B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC5B | FALSI | 0.14380 | | | | |
| 14 | FC5C | MTC5C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC5C | FALSI | 0.14380 | | | | |
| 14 | FC5D | MTC5D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC5D | FALSI | 0.14380 | | | | |
| 14 | FC6A | MTC6A | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC6A | FALSI | 0.14380 | | | | |
| 14 | FC6B | MTC6B | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC6B | FALSI | 0.14380 | | | | |
| 14 | FC6C | MTC6C | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC6C | FALSI | 0.14380 | | | | |
| 14 | FC6D | MTC6D | 0.14380 | CLAD | 0.21570 | MOD | 0.64050 |
| 14 | FC6D | FALSI | 0.14380 | | | | |
| 14 | ME3A | FE3A | 1.00000 | | | | |
| 14 | ME3B | FE3B | 1.00000 | | | | |
| 14 | ME3C | FE3C | 1.00000 | | | | |
| 14 | ME3D | FE3D | 1.00000 | | | | |
| 14 | ME7A | FE7A | 1.00000 | | | | |
| 14 | ME7B | FE7B | 1.00000 | | | | |
| 14 | ME7C | FE7C | 1.00000 | | | | |
| 14 | ME7D | FE7D | 1.00000 | | | | |
| 14 | MC3A | FC3A | 1.00000 | | | | |
| 14 | MC3B | FC3B | 1.00000 | | | | |
| 14 | MC3C | FC3C | 1.00000 | | | | |
| 14 | MC3D | FC3D | 1.00000 | | | | |
| 14 | MC7A | FC7A | 1.00000 | | | | |
| 14 | MC7B | FC7B | 1.00000 | | | | |
| 14 | MC7C | FC7C | 1.00000 | | | | |
| 14 | MC7D | FC7D | 1.00000 | | | | |
| 14 | ME4A | FE4A | 1.00000 | | | | |
| 14 | ME4B | FE4B | 1.00000 | | | | |
| 14 | ME4C | FE4C | 1.00000 | | | | |
| 14 | ME4D | FE4D | 1.00000 | | | | |
| 14 | ME5A | FE5A | 1.00000 | | | | |
| 14 | ME5B | FE5B | 1.00000 | | | | |
| 14 | ME5C | FE5C | 1.00000 | | | | |
| 14 | ME5D | FE5D | 1.00000 | | | | |
| 14 | ME6A | FE6A | 1.00000 | | | | |
| 14 | ME6B | FE6B | 1.00000 | | | | |
| 14 | ME6C | FE6C | 1.00000 | | | | |
| 14 | ME6D | FE6D | 1.00000 | | | | |
| 14 | MD3A | FD3A | 1.00000 | | | | |
| 14 | MD3B | FD3B | 1.00000 | | | | |
| 14 | MD3C | FD3C | 1.00000 | | | | |
| 14 | MD3D | FD3D | 1.00000 | | | | |
| 14 | MD4A | FD4A | 1.00000 | | | | |
| 14 | MD4B | FD4B | 1.00000 | | | | |
| 14 | MD4C | FD4C | 1.00000 | | | | |
| 14 | MD4D | FD4D | 1.00000 | | | | |

```

14      MD6A  FD6A  1.00000
14      MD6B  FD6B  1.00000
14      MD6C  FD6C  1.00000
14      MD6D  FD6D  1.00000
14      MD7A  FD7A  1.00000
14      MD7B  FD7B  1.00000
14      MD7C  FD7C  1.00000
14      MD7D  FD7D  1.00000
14      MC4A  FC4A  1.00000
14      MC4B  FC4B  1.00000
14      MC4C  FC4C  1.00000
14      MC4D  FC4D  1.00000
14      MC5A  FC5A  1.00000
14      MC5B  FC5B  1.00000
14      MC5C  FC5C  1.00000
14      MC5D  FC5D  1.00000
14      MC6A  FC6A  1.00000
14      MC6B  FC6B  1.00000
14      MC6C  FC6C  1.00000
14      MC6D  FC6D  1.00000
01 Be block, Graphite block, and Be plug composition are different 9/18
01 14      BEBLK H2OBE 0.04178 BE 0.95822
01 14      BETRP H2OBE 0.03873 BE 0.96127
01 14      REFGR H2OG 0.14165 ALB 0.07113 GRAF 0.78722
14      BEBLK H2OBE 0.04620 BE 0.95380
14      BETPI H2OBE 0.08942 BE 0.91058
14      BETPO H2OBE 0.02478 BE 0.97522
14      REFGR H2OG 0.07348 ALB 0.03922 GRAF 0.88730
01 sideplate composition is different 9/98
01 14      SIDES H2OS 0.32360 ALS 0.67640
14      SIDES H2OS 0.29235 ALS 0.70765
14      AXH2O H2ORB 0.77100 ALB 0.05315 ALBX 0.17585
14      CNTL H2OS 0.76496 ALS 0.23504
01 Reg rod out composition is different 9/98
01 14      REGO H2OS 0.68347 ALS 0.31653
14      REGO H2OCR 0.84580 ALCR 0.15420
14      REGI1 H2OCR 0.16000 ALCR 0.84000
14      REGI2 H2OCR 0.91000 ALCR 0.09000
14      ROD CRSS 0 1.81655E-02MNSS 0 1.44994E-03FESS 0 5.75879E-02
14      ROD NISS 0 7.81564E-03
01 CNTL0 use detail CR xs for water, composition same 9/98
14      CNTLO H2OCR 0.76496 ALCR 0.23504
14      CNTLI H2OS 0.53238 ALS 0.46762
14      BLADE B10C 0 7.92800E-03B11C 0 3.21530E-02C12C 0 1.00200E-02
14      BLADE ALC 0 3.81090E-02
14      POSTS H2ORB 0.50 ALB 0.50
14      BLOK1 H2ORB 0.04316 ALS 0.95684
14      BLOK2 H2ORB 0.57127 ALS 0.42873
14      BLOK3 H2ORB 0.01065 BE 0.98935
01 plug not used 14 PLUG ALP 1.0
14      GBOX H2ORB 0.37264 ALB 0.62726
14      GRID H2ORB 0.60 ALB 0.40
14      REFH2OH2OR 1.0
14      GUIDE ALCR 1.0
14      BOX ALB 1.0
14      SHIELDLEAD 1.0
14      THERM GRAF 1.0
15      SIDES S1 S2 S3 S4 S5 S6
15      REFH2OH2ORFOH2ORFIFC RB3 RB4 RB5 CIC
15      BETPO TRAP
15      BETPI HOLE
15      REGO REGOUT
15      REGI1 REGIN1
15      REGI2 REGIN2
15      ROD ROD1
01 removed RBBL2S & RBBL2E, replace with G-E9
15      BLOK1 RBBL3SRBBL4SRBBL5S
15      BLOK2 RBBL3ERBBL4ERBBL5E
15      BEBLK BEF5A BEF6A BEEC8 BE-E2
15      BEBLK BE-C2 BE-F9
15      GRID GRID
15      AXH2O AXREFTAXREFB
15      GUIDE G1 G2 G3 G4 G5 G6
15      CNTLO CNTL1OCNTL2OCNTL3OCNTL4O
15      CNTLI CNTL1ICNTL2ICNTL3ICNTL4I
15      BLADE BLADE1BLADE2BLADE3BLADE4
15      REFGR GRAF1 GRAF5 GRAF6 GRAG1 GRAG2
15      REFGR G-E9
15      GBOX GSBOX
15      SHIELDSHIELD
15      THERM TC1 TC2

```

```

15     POSTS POST3 POST4 POST1 POST2
15     BOX   GBOX TCB1  TCB2
15     1 move E4 to D4, E5
15     ME4A  E5A
15     ME4B  E5B
15     ME4C  E5C
15     ME4D  E5D

```

```

Take E5 out
15     ME5A  D4A
15     ME5B  D4B
15     ME5C  D4C
15     ME5D  D4D

```

```

2 MOVE E6 TO E5, D6
15     ME6A  D6A
15     ME6B  D6B
15     ME6C  D6C
15     ME6D  D6D

```

```

3 MOVE D3 TO E4
15     MD3A  E4A
15     MD3B  E4B
15     MD3C  E4C
15     MD3D  E4D

```

```

TAKE D4 OUT
15     MD4A  D4A
15     MD4B  D4B
15     MD4C  D4C
15     MD4D  D4D

```

```

TAKE D6 OUT
15     MD6A  D6A
15     MD6B  D6B
15     MD6C  D6C
15     MD6D  D6D

```

```

4 MOVE D7 TO C6
15     MD7A  D7A
15     MD7B  D7B
15     MD7C  D7C
15     MD7D  D7D
15     MD7A  C6A
15     MD7B  C6B
15     MD7C  C6C
15     MD7D  C6D

```

```

5 Move C4 to D4
15     MC4A  D4A
15     MC4B  D4B
15     MC4C  D4C
15     MC4D  D4D

```

```

TAKE C5 OUT
15     MC5A  C5A
15     MC5B  C5B
15     MC5C  C5C
15     MC5D  C5D

```

```

6 MOVE C6 TO D6, C5
15     MC6A  C5A
15     MC6B  C5B
15     MC6C  C5C
15     MC6D  C5D

```

```

7 MOVE E7 TO E6
15     ME7A  E6A
15     ME7B  E6B
15     ME7C  E6C
15     ME7D  E6D

```

```

8 MOVE C3 TO C4
15     MC3A  C4A
15     MC3B  C4B
15     MC3C  C4C
15     MC3D  C4D

```

```

9 MOVE C7 TO D7
15     MC7A  D7A
15     MC7B  D7B

```

```

15 MC7C D7C
15 MC7D D7D

10 MOVE E3 TO D3
15 ME3A D3A
15 ME3B D3B
15 ME3C D3C
15 ME3D D3D

34 BLADE -4.11428E-01 3 2.57877E+00 4
34 BLADE 9.15215E+01 5 2.02441E+03 6
34 BLADE 4.19631E+05 7
35 ADJB 0.0 .44189 0.0 .44189 0.0 .44189 3
35 ADJB 0.0 .10218 0.0 .10218 0.0 .10218 4
35 ADJB 0.0 .08354 0.0 .08354 0.0 .08354 5
35 ADJB 0.0 .07663 0.0 .07663 0.0 .07663 6
35 ADJB 0.0 .07598 0.0 .07598 0.0 .07598 7
36 ADJB BLADE
DATASET=A.BURN
01 RINSC LEU
core3+4 new fuel, 2MW 100 days rundown
02 0280000 0 0.001 1.000 1.0000 1 1
03 0 0.0 0.0 7.00 -1.000 7 0
09 U235 1U236
09 U235 2XE135 2.4200-03 PM149 1.0666-02
09 U235 2I135 6.2966-02 ETFP 1.000
09 U235 5U234
09 U236 1DUMP
09 U236 2XE135 1.5847-03 PM149 1.3691-02
09 U236 2I135 5.6307-02 ETFP 1.000
09 U236 5U235
09 U238 1PU239
09 U238 2XE135 2.8000-04 PM149 1.6100-02
09 U238 2I135 6.8349-02 ETFP 1.000
09 U238 5DUMP
09 PU239 1PU240
09 PU239 2XE135 1.1524-02 PM149 1.2390-02
09 PU239 2I135 6.4494-02 ETFP 1.000
09 PU239 5DUMP
09 PU239 8U235
09 PU240 1PU241
09 PU240 2XE135 6.9843-03 PM149 1.3690-02
09 PU240 2I135 6.7476-02 ETFP 1.000
09 PU240 8U236
09 PU241 1PU242
09 PU241 2XE135 2.3140-03 PM149 1.5240-02
09 PU241 2I135 7.0698-02 ETFP 1.000
09 PU241 8DUMP
09 PU242 1DUMP
09 PU242 2XE135 2.6448-03 PM149 1.6152-02
09 PU242 2I135 6.9001-02 ETFP 1.000
09 PU242 5PU241
09 PU242 8U238
09 XE135 6DUMP
09 XE135 1DUMP
09 I135 1DUMP
09 I135 6XE135
09 PM149 6SM149
09 SM149 1DUMP
09 ETFP 1DUMP
09 DUMP 0
10 U235 U5F4 0
10 U236 FU6B 0
10 U238 U8F4 0
10 PU239 FP9B 0
10 PU240 FP0B 0
10 PU241 FP1B 0
10 PU242 FP2B 0
10 XE135 FXEB 0
10 PM149 FPMB 0
10 I135 FI5B 0
10 SM149 FSMB 0
10 ETFP PFP1 0
10 DUMP ODUM 0
24 U235 1 235.04
24 U236 0 236.04
24 U238 0 238.05
24 PU239 1 239.05
24 PU240 0 240.05
24 PU241 1 241.06
24 PU242 0 242.06

```

| | | | |
|----|-------|--------|----------|
| 24 | XE135 | 0 | 134.90 |
| 24 | I135 | 0 | 134.90 |
| 24 | PM149 | 0 | 148.92 |
| 24 | SM149 | 0 | 148.92 |
| 24 | ETFP | 0 | 100.00 |
| 24 | DUMP | 0 | 100.00 |
| 25 | PU239 | 8U235 | 9.110-13 |
| 25 | PU240 | 8U236 | 3.348-12 |
| 25 | PU241 | 6DUMP | 1.6633-9 |
| 25 | PU241 | 8DUMP | 1.665-12 |
| 25 | PU242 | 8U238 | 5.842-14 |
| 25 | XE135 | 6DUMP | 2.0930-5 |
| 25 | PM149 | 6SM149 | 3.6260-6 |
| 25 | I135 | 6XE135 | 2.8740-5 |

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | NFC3A | MNEW | FMC3A | 1 | 1 |
| 35 | NFC3B | MNEW | FMC3B | 1 | 1 |
| 35 | NFC3C | MNEW | FMC3C | 1 | 1 |
| 35 | NFC3D | MNEW | FMC3D | 1 | 1 |
| 35 | NFC7A | MNEW | FMC7A | 1 | 1 |
| 35 | NFC7B | MNEW | FMC7B | 1 | 1 |
| 35 | NFC7C | MNEW | FMC7C | 1 | 1 |
| 35 | NFC7D | MNEW | FMC7D | 1 | 1 |
| 35 | NFE3A | MNEW | FME3A | 1 | 1 |
| 35 | NFE3B | MNEW | FME3B | 1 | 1 |
| 35 | NFE3C | MNEW | FME3C | 1 | 1 |
| 35 | NFE3D | MNEW | FME3D | 1 | 1 |
| 35 | NFE7A | MNEW | FME7A | 1 | 1 |
| 35 | NFE7B | MNEW | FME7B | 1 | 1 |
| 35 | NFE7C | MNEW | FME7C | 1 | 1 |
| 35 | NFE7D | MNEW | FME7D | 1 | 1 |

8 MOVE C3 TO C4

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAC3A | MC3A | FMC3A | 1 | 1 |
| 35 | PAC3B | MC3B | FMC3B | 1 | 1 |
| 35 | PAC3C | MC3C | FMC3C | 1 | 1 |
| 35 | PAC3D | MC3D | FMC3D | 1 | 1 |
| 35 | PAC3A | MC3A | FMC4A | 1 | 1 |
| 35 | PAC3B | MC3B | FMC4B | 1 | 1 |
| 35 | PAC3C | MC3C | FMC4C | 1 | 1 |
| 35 | PAC3D | MC3D | FMC4D | 1 | 1 |

10 E3 TO D3

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAE3A | ME3A | FME3A | 1 | 1 |
| 35 | PAE3B | ME3B | FME3B | 1 | 1 |
| 35 | PAE3C | ME3C | FME3C | 1 | 1 |
| 35 | PAE3D | ME3D | FME3D | 1 | 1 |
| 35 | PAE3A | ME3A | FMD3A | 1 | 1 |
| 35 | PAE3B | ME3B | FMD3B | 1 | 1 |
| 35 | PAE3C | ME3C | FMD3C | 1 | 1 |
| 35 | PAE3D | ME3D | FMD3D | 1 | 1 |

7 E7 TO E6

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAE7A | ME7A | FME7A | 1 | 1 |
| 35 | PAE7B | ME7B | FME7B | 1 | 1 |
| 35 | PAE7C | ME7C | FME7C | 1 | 1 |
| 35 | PAE7D | ME7D | FME7D | 1 | 1 |
| 35 | PAE7A | ME7A | FME6A | 1 | 1 |
| 35 | PAE7B | ME7B | FME6B | 1 | 1 |
| 35 | PAE7C | ME7C | FME6C | 1 | 1 |
| 35 | PAE7D | ME7D | FME6D | 1 | 1 |

1 E4 moved to D4, E5

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAE4A | ME4A | FME5A | 1 | 1 |
| 35 | PAE4B | ME4B | FME5B | 1 | 1 |
| 35 | PAE4C | ME4C | FME5C | 1 | 1 |
| 35 | PAE4D | ME4D | FME5D | 1 | 1 |

Remove E5

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAE5A | ME5A | FMD4A | 1 | 1 |
| 35 | PAE5B | ME5B | FMD4B | 1 | 1 |
| 35 | PAE5C | ME5C | FMD4C | 1 | 1 |
| 35 | PAE5D | ME5D | FMD4D | 1 | 1 |

2 E6 to E5, D6

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAE6A | ME6A | FMD6A | 1 | 1 |
| 35 | PAE6B | ME6B | FMD6B | 1 | 1 |
| 35 | PAE6C | ME6C | FMD6C | 1 | 1 |
| 35 | PAE6D | ME6D | FMD6D | 1 | 1 |

3 D3 to E4

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAD3A | MD3A | FMD3A | 1 | 1 |
| 35 | PAD3B | MD3B | FMD3B | 1 | 1 |
| 35 | PAD3C | MD3C | FMD3C | 1 | 1 |
| 35 | PAD3D | MD3D | FMD3D | 1 | 1 |
| 35 | PAD3A | MD3A | FME4A | 1 | 1 |
| 35 | PAD3B | MD3B | FME4B | 1 | 1 |
| 35 | PAD3C | MD3C | FME4C | 1 | 1 |
| 35 | PAD3D | MD3D | FME4D | 1 | 1 |

REMOVE D4

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAD4A | MD4A | FMD4A | 1 | 1 |
| 35 | PAD4B | MD4B | FMD4B | 1 | 1 |
| 35 | PAD4C | MD4C | FMD4C | 1 | 1 |
| 35 | PAD4D | MD4D | FMD4D | 1 | 1 |

REMOVE D6

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAD6A | MD6A | FMD6A | 1 | 1 |
| 35 | PAD6B | MD6B | FMD6B | 1 | 1 |
| 35 | PAD6C | MD6C | FMD6C | 1 | 1 |
| 35 | PAD6D | MD6D | FMD6D | 1 | 1 |

4 D7 to C6

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAD7A | MD7A | FMD7A | 1 | 1 |
| 35 | PAD7B | MD7B | FMD7B | 1 | 1 |
| 35 | PAD7C | MD7C | FMD7C | 1 | 1 |
| 35 | PAD7D | MD7D | FMD7D | 1 | 1 |
| 35 | PAD7A | MD7A | FMC6A | 1 | 1 |
| 35 | PAD7B | MD7B | FMC6B | 1 | 1 |
| 35 | PAD7C | MD7C | FMC6C | 1 | 1 |
| 35 | PAD7D | MD7D | FMC6D | 1 | 1 |

5 C4 to D4

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAC4A | MC4A | FMD4A | 1 | 1 |
| 35 | PAC4B | MC4B | FMD4B | 1 | 1 |
| 35 | PAC4C | MC4C | FMD4C | 1 | 1 |
| 35 | PAC4D | MC4D | FMD4D | 1 | 1 |

REMOVE C5

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAC5A | MC5A | FMC5A | 1 | 1 |
| 35 | PAC5B | MC5B | FMC5B | 1 | 1 |
| 35 | PAC5C | MC5C | FMC5C | 1 | 1 |
| 35 | PAC5D | MC5D | FMC5D | 1 | 1 |

6 C6 TO D6, C5

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAC6A | MC6A | FMC5A | 1 | 1 |
| 35 | PAC6B | MC6B | FMC5B | 1 | 1 |
| 35 | PAC6C | MC6C | FMC5C | 1 | 1 |
| 35 | PAC6D | MC6D | FMC5D | 1 | 1 |

9 C7 TO D7

| | | | | | |
|----|-------|------|-------|---|---|
| 35 | PAC7A | MC7A | FMC7A | 1 | 1 |
| 35 | PAC7B | MC7B | FMC7B | 1 | 1 |
| 35 | PAC7C | MC7C | FMC7C | 1 | 1 |
| 35 | PAC7D | MC7D | FMC7D | 1 | 1 |
| 35 | PAC7A | MC7A | FMD7A | 1 | 1 |
| 35 | PAC7B | MC7B | FMD7B | 1 | 1 |
| 35 | PAC7C | MC7C | FMD7C | 1 | 1 |
| 35 | PAC7D | MC7D | FMD7D | 1 | 1 |

| | | |
|----|-------|-----|
| 45 | FME3A | E3A |
| 45 | FME3B | E3B |
| 45 | FME3C | E3C |
| 45 | FME3D | E3D |
| 45 | FME4A | E4A |
| 45 | FME4B | E4B |
| 45 | FME4C | E4C |
| 45 | FME4D | E4D |
| 45 | FME5A | E5A |
| 45 | FME5B | E5B |
| 45 | FME5C | E5C |
| 45 | FME5D | E5D |
| 45 | FME6A | E6A |
| 45 | FME6B | E6B |
| 45 | FME6C | E6C |
| 45 | FME6D | E6D |
| 45 | FME7A | E7A |
| 45 | FME7B | E7B |
| 45 | FME7C | E7C |
| 45 | FME7D | E7D |
| 45 | FMD3A | D3A |
| 45 | FMD3B | D3B |
| 45 | FMD3C | D3C |

| | | | | | | | | | | | |
|----|-------|-------|-------------|--------|--------|--------|-------------|-------------|-------|-------|-------|
| 43 | FMD3D | D3D | | | | | | | | | |
| 45 | FMD4A | D4A | | | | | | | | | |
| 45 | FMD4B | D4B | | | | | | | | | |
| 45 | FMD4C | D4C | | | | | | | | | |
| 45 | FMD4D | D4D | | | | | | | | | |
| 45 | FMD6A | D6A | | | | | | | | | |
| 45 | FMD6B | D6B | | | | | | | | | |
| 45 | FMD6C | D6C | | | | | | | | | |
| 45 | FMD6D | D6D | | | | | | | | | |
| 45 | FMD7A | D7A | | | | | | | | | |
| 45 | FMD7B | D7B | | | | | | | | | |
| 45 | FMD7C | D7C | | | | | | | | | |
| 45 | FMD7D | D7D | | | | | | | | | |
| 45 | FMC3A | C3A | | | | | | | | | |
| 45 | FMC3B | C3B | | | | | | | | | |
| 45 | FMC3C | C3C | | | | | | | | | |
| 45 | FMC3D | C3D | | | | | | | | | |
| 45 | FMC4A | C4A | | | | | | | | | |
| 45 | FMC4B | C4B | | | | | | | | | |
| 45 | FMC4C | C4C | | | | | | | | | |
| 45 | FMC4D | C4D | | | | | | | | | |
| 45 | FMC5A | C5A | | | | | | | | | |
| 45 | FMC5B | C5B | | | | | | | | | |
| 45 | FMC5C | C5C | | | | | | | | | |
| 45 | FMC5D | C5D | | | | | | | | | |
| 45 | FMC6A | C6A | | | | | | | | | |
| 45 | FMC6B | C6B | | | | | | | | | |
| 45 | FMC6C | C6C | | | | | | | | | |
| 45 | FMC6D | C6D | | | | | | | | | |
| 45 | FMC7A | C7A | | | | | | | | | |
| 45 | FMC7B | C7B | | | | | | | | | |
| 45 | FMC7C | C7C | | | | | | | | | |
| 45 | FMC7D | C7D | | | | | | | | | |
| 26 | U5F40 | U5F40 | FU6B0 | U8F40 | FP9B0 | FP0B0 | FP1B0 | FP2B0 | FXEB0 | FPMB0 | FSMB0 |
| 26 | U5F40 | FI5B0 | PFF10 | | | | | | | | |
| 39 | U5F40 | 5 | 7FU6B0 | | 5 | 7U8F40 | | 5 | 7 | | |
| 39 | FP9B0 | 5 | 7FP0B0 | | 5 | 7FP1B0 | | 5 | 7 | | |
| 39 | FP2B0 | 5 | 7FXEB0 | | 5 | 7FPMB0 | | 5 | 7 | | |
| 39 | FSMB0 | 5 | 7FI5B0 | | 5 | 7PFP10 | | 1 | 7 | | |
| 40 | U5F40 | 2 | 1.00000E-03 | | 3FU6B0 | | 2 | 1.00000E-03 | | 3 | |
| 40 | U8F40 | 2 | 1.00000E-03 | | 3FP9B0 | | 2 | 1.00000E-03 | | 3 | |
| 40 | FP0B0 | 2 | 1.00000E-03 | | 3FP1B0 | | 2 | 1.00000E-03 | | 3 | |
| 40 | FP2B0 | 2 | 1.00000E-03 | | 3FXEB0 | | 0 | 1.00000E-03 | | 3 | |
| 40 | FPMB0 | 0 | 1.00000E-03 | | 3FSMB0 | | 0 | 1.00000E-03 | | 3 | |
| 40 | FI5B0 | 0 | 1.00000E-03 | | 3PFP10 | | 0 | 1.00000E-03 | | 3 | |
| 41 | U5F40 | U5F40 | 2.52427E-04 | 1.0000 | | U5F41 | 2.52090E-04 | 1.0000 | | | |
| 41 | U5F40 | U5F42 | 2.48755E-04 | 1.0000 | | U5F43 | 2.35673E-04 | 1.0000 | | | |
| 41 | U5F40 | U5F44 | 2.10551E-04 | 1.0000 | | U5F45 | 9.30573E-05 | 1.0000 | | | |
| 41 | FU6B0 | FU6B0 | 2.52427E-04 | 1.0000 | | FU6B1 | 2.52090E-04 | 1.0000 | | | |
| 41 | FU6B0 | FU6B2 | 2.48755E-04 | 1.0000 | | FU6B3 | 2.35673E-04 | 1.0000 | | | |
| 41 | FU6B0 | FU6B4 | 2.10551E-04 | 1.0000 | | FU6B5 | 9.30573E-05 | 1.0000 | | | |
| 41 | U8F40 | U8F40 | 2.52427E-04 | 1.0000 | | U8F41 | 2.52090E-04 | 1.0000 | | | |
| 41 | U8F40 | U8F42 | 2.48755E-04 | 1.0000 | | U8F43 | 2.35673E-04 | 1.0000 | | | |
| 41 | U8F40 | U8F44 | 2.10551E-04 | 1.0000 | | U8F45 | 9.30573E-05 | 1.0000 | | | |
| 41 | FP9B0 | FP9B0 | 2.52427E-04 | 1.0000 | | FP9B1 | 2.52090E-04 | 1.0000 | | | |
| 41 | FP9B0 | FP9B2 | 2.48755E-04 | 1.0000 | | FP9B3 | 2.35673E-04 | 1.0000 | | | |
| 41 | FP9B0 | FP9B4 | 2.10551E-04 | 1.0000 | | FP9B5 | 9.30573E-05 | 1.0000 | | | |
| 41 | FP0B0 | FP0B0 | 2.52427E-04 | 1.0000 | | FP0B1 | 2.52090E-04 | 1.0000 | | | |
| 41 | FP0B0 | FP0B2 | 2.48755E-04 | 1.0000 | | FP0B3 | 2.35673E-04 | 1.0000 | | | |
| 41 | FP0B0 | FP0B4 | 2.10551E-04 | 1.0000 | | FP0B5 | 9.30573E-05 | 1.0000 | | | |
| 41 | FP1B0 | FP1B0 | 2.52427E-04 | 1.0000 | | FP1B1 | 2.52090E-04 | 1.0000 | | | |
| 41 | FP1B0 | FP1B2 | 2.48755E-04 | 1.0000 | | FP1B3 | 2.35673E-04 | 1.0000 | | | |
| 41 | FP1B0 | FP1B4 | 2.10551E-04 | 1.0000 | | FP1B5 | 9.30573E-05 | 1.0000 | | | |
| 41 | FP2B0 | FP2B0 | 2.52427E-04 | 1.0000 | | FP2B1 | 2.52090E-04 | 1.0000 | | | |
| 41 | FP2B0 | FP2B2 | 2.48755E-04 | 1.0000 | | FP2B3 | 2.35673E-04 | 1.0000</ | | | |

