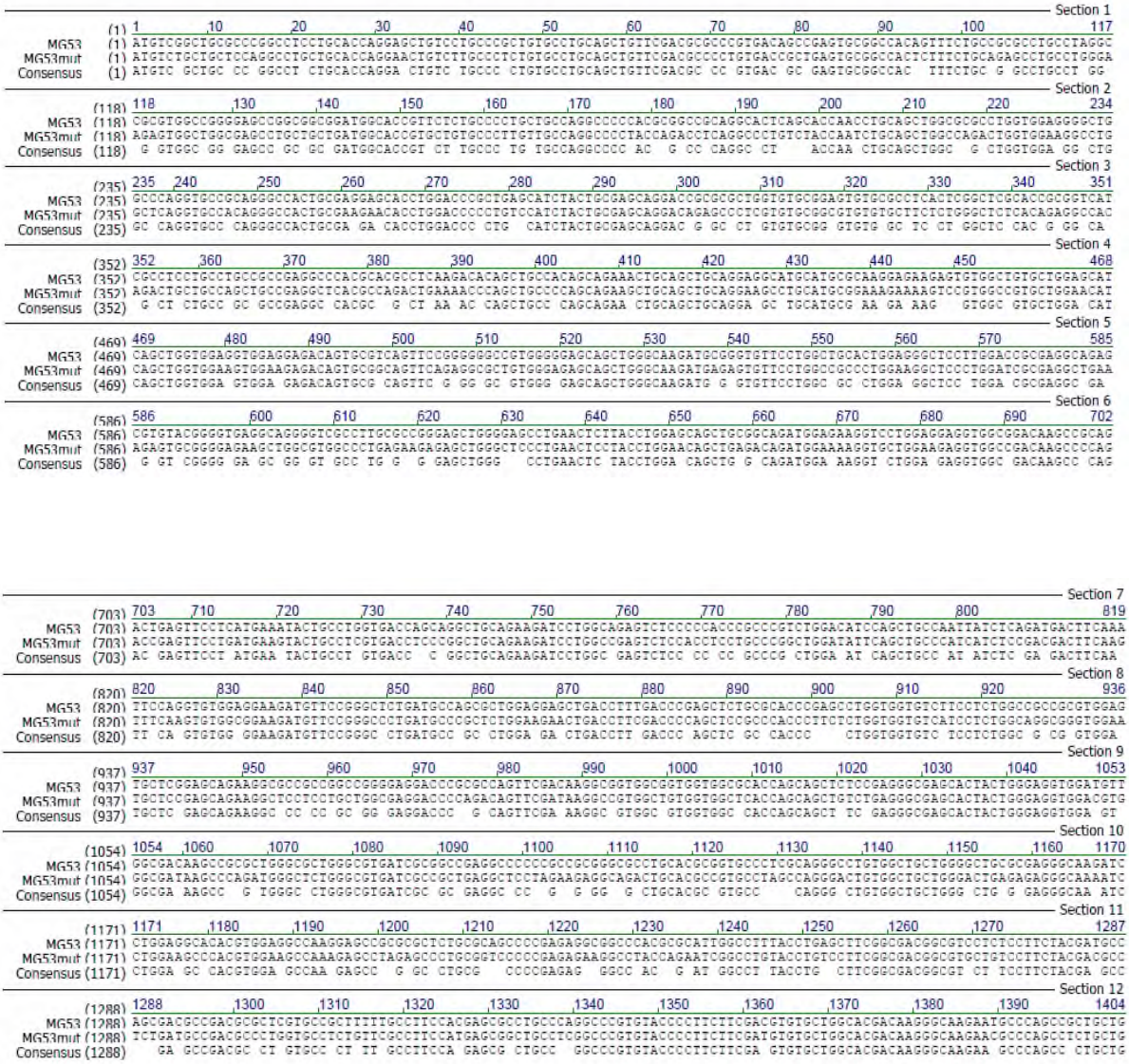

Section 1
MG53 (1) ATGTCGGCTGCGCCCGGCCTCCTGCACCAGGAGCTGTCCTGCCCGCTGTGCCTGCAGCTGTTCGACGCGCCCGTGACAGCCGAGTGCGGCCACAGTTTCTGCCGCGCCTGCCTAGGC
MG53mut (1) ATGTCTGCTGCTCCAGGCCTGCTGCACCAGGAACTGTCTTGCCCTCTGTGCCTGCAGCTGTTCGACGCCCCTGTGACCGCTGAGTGCGGCCACTCTTTCTGCAGAGCCTGCCTGGGA
Consensus (1) ATGTC GCTGC CC GGCCT CTGCACCAGGA CTGTC TGCCC CTGTGCCTGCAGCTGTTCGACGC CC GTGAC GC GAGTGCGGCCAC TTTCTGC G GCCTGCCT GG
Section 2
MG53 (118) CGCGTGGCCGGGGAGCCGGCGGCGGATGGCACCGTTCTCTGCCCCTGCTGCCAGGCCCCCACGCGGCCGCAGGCACTCAGCACCAACCTGCAGCTGGCGCGCCTGGTGGAGGGGCTG
MG53mut (118) AGAGTGGCTGGCGAGCCTGCTGCTGATGGCACCGTGCTGTGCCCTTGTTGCCAGGCCCCTACCAGACCTCAGGCCCTGTCTACCAATCTGCAGCTGGCCAGACTGGTGGAAGGCCTG
Consensus (118) G GTGGC GG GAGCC GC GC GATGGCACCGT CT TGCCC TG TGCCAGGCCCC AC G CC CAGGC CT ACCAA CTGCAGCTGGC G CTGGTGGA GG CTG
Section 3
MG53 (235) GCCCAGGTGCCGCAGGGCCACTGCGAGGAGCACCTGGACCCGCTGAGCATCTACTGCGAGCAGGACCGCGCGCTGGTGTGCGGAGTGTGCGCCTCACTCGGCTCGCACCGCGGTCAT
MG53mut (235) GCTCAGGTGCCACAGGGCCACTGCGAAGAACACCTGGACCCCCTGTCCATCTACTGCGAGCAGGACAGAGCCCTCGTGTGCGGCGTGTGTGCTTCTCTGGGCTCTCACAGAGGCCAC
Consensus (235) GC CAGGTGCC CAGGGCCACTGCGA GA CACCTGGACCC CTG CATCTACTGCGAGCAGGAC G GC CT GTGTGCGG GTGTG GC TC CT GGCTC CAC G GG CA
Section 4
MG53 (352) CGCCTCCTGCCTGCCGCCGAGGCCCACGCACGCCTCAAGACACAGCTGCCACAGCAGAAACTGCAGCTGCAGGAGGCATGCATGCGCAAGGAGAAGAGTGTGGCTGTGCTGGAGCAT
MG53mut (352) AGACTGCTGCCAGCTGCCGAGGCTCACGCCAGACTGAAAACCCAGCTGCCCCAGCAGAAGCTGCAGCTGCAGGAAGCCTGCATGCGGAAAGAAAAGTCCGTGGCCGTGCTGGAACAT
Consensus (352) G CT CTGCC GC GCCGAGGC CACGC G CT AA AC CAGCTGCC CAGCAGAA CTGCAGCTGCAGGA GC TGCATGCG AA GA AAG GTGGC GTGCTGGA CAT
Section 5
MG53 (469) CAGCTGGTGGAGGTGGAGGAGACAGTGCGTCAGTTCCGGGGGGCCGTGGGGGAGCAGCTGGGCAAGATGCGGGTGTTCCTGGCTGCACTGGAGGGCTCCTTGGACCGCGAGGCAGAG
MG53mut (469) CAGCTGGTGGAAGTGGAAGAGACAGTGCGGCAGTTCAGAGGCGCTGTGGGAGAGCAGCTGGGCAAGATGAGAGTGTTCCTGGCCGCCCTGGAAGGCTCCCTGGATCGCGAGGCTGAA
Consensus (469) CAGCTGGTGGA GTGGA GAGACAGTGCG CAGTTC G GG GC GTGGG GAGCAGCTGGGCAAGATG G GTGTTCCTGGC GC CTGGA GGCTCC TGGA CGCGAGGC GA
Section 6
MG53 (586) CGTGTACGGGGTGAGGCAGGGGTCGCCTTGCGCCGGGAGCTGGGGAGCCTGAACTCTTACCTGGAGCAGCTGCGGCAGATGGAGAAGGTCCTGGAGGAGGTGGCGGACAAGCCGCAG
MG53mut (586) AGAGTGCGGGGAGAAGCTGGCGTGGCCCTGAGAAGAGAGCTGGGCTCCCTGAACTCCTACCTGGAACAGCTGAGACAGATGGAAAAGGTGCTGGAAGAGGTGGCCGACAAGCCCCAG
Consensus (586) G GT CGGGG GA GC GG GT GCC TG G G GAGCTGGG CCTGAACTC TACCTGGA CAGCTG G CAGATGGA AAGGT CTGGA GAGGTGGC GACAAGCC CAG
Section 7
MG53 (703) ACTGAGTTCCTCATGAAATACTGCCTGGTGACCAGCAGGCTGCAGAAGATCCTGGCAGAGTCTCCCCCACCCGCCCGTCTGGACATCCAGCTGCCAATTATCTCAGATGACTTCAAA
MG53mut (703) ACCGAGTTCCTGATGAAGTACTGCCTCGTGACCTCCCGGCTGCAGAAGATCCTGGCCGAGTCTCCACCTCCTGCCCGGCTGGATATTCAGCTGCCCATCATCTCCGACGACTTCAAG
Consensus (703) AC GAGTTCCT ATGAA TACTGCCT GTGACC C GGCTGCAGAAGATCCTGGC GAGTCTCC CC CC GCCCG CTGGA AT CAGCTGCC AT ATCTC GA GACTTCAA
Section 8
MG53 (820) TTCCAGGTGTGGAGGAAGATGTTCCGGGCTCTGATGCCAGCGCTGGAGGAGCTGACCTTTGACCCGAGCTCTGCGCACCCGAGCCTGGTGGTGTCTTCCTCTGGCCGCCGCGTGGAG
MG53mut (820) TTTCAAGTGTGGCGGAAGATGTTCCGGGCCCTGATGCCCGCTCTGGAAGAACTGACCTTCGACCCCAGCTCCGCCCACCCTTCTCTGGTGGTGTCATCCTCTGGCAGGCGGGTGGAA
Consensus (820) TT CA GTGTGG GGAAGATGTTCCGGGC CTGATGCC GC CTGGA GA CTGACCTT GACCC AGCTC GC CACCC CTGGTGGTGTC TCCTCTGGC G CG GTGGA
Section 9
MG53 (937) TGCTCGGAGCAGAAGGCGCCGCCGGCCGGGGAGGACCCGCGCCAGTTCGACAAGGCGGTGGCGGTGGTGGCGCACCAGCAGCTCTCCGAGGGCGAGCACTACTGGGAGGTGGATGTT
MG53mut (937) TGCTCCGAGCAGAAGGCTCCTCGTGCTGGCGAGGACCCCAGACAGTTCGATAAGGCCGTGGCTGTGGTGGCTCACCAGCAGCTGTCTGAGGGCGAGCACTACTGGGAGGTGGACGTG
Consensus (937) TGCTC GAGCAGAAGGC CC CC GC GG GAGGACCC G CAGTTCGA AAGGC GTGGC GTGGTGGC CACCAGCAGCT TC GAGGGCGAGCACTACTGGGAGGTGGA GT
Section 10
MG53 (1054) GGCGACAAGCCGCGCTGGGCGCTGGGCGTGATCGCGGCCGAGGCCCCCCGCGCGGGCGCCTGCACGCGGTGCCCTCGCAGGGCCTGTGGCTGCTGGGGCTGCGCGAGGGCAAGATC
MG53mut (1054) GGCGATAAGCCCAGATGGGCTCTGGGCGTGATCGCCGCTGAGGCTCCTAGAAGAGGCAGACTGCACGCCGTGCCTAGCCAGGGACTGTGGCTGCTGGGACTGAGAGAGGGCAAAATC
Consensus (1054) GGCGA AAGCC G TGGGC CTGGGCGTGATCGC GC GAGGC CC G G GG G CTGCACGC GTGCC CAGGG CTGTGGCTGCTGGG CTG G GAGGGCAA ATC
Section 11
MG53 (1171) CTGGAGGCACACGTGGAGGCCAAGGAGCCGCGCGCTCTGCGCAGCCCCGAGAGGCGCCCACGCGCATTGGCCTTTACCTGAGCTTCGGCGACGGCGTCCTCTCTTCTACGATGCC
MG53mut (1171) CTGGAAGCCCACGTGGAAGCCAAAGAGCCTAGAGCCCTGCGGTCCCCCGAGAGAAGGCCTACCAGAATCGGCCTGTACCTGTCCTTCGGCGACGGCGTGCTGTCCTTCTACGACGCC
Consensus (1171) CTGGA GC CACGTGGA GCCAA GAGCC G GC CTGCG CCCCGAGAG GGCC AC G AT GGCCT TACCTG CTTCGGCGACGGCGT CT TCCTTCTACGA GCC
Section 12
MG53 (1288) AGCGACGCCGACGCGCTCGTGCCGCTTTTTGCCTTCCACGAGCGCCTGCCCAGGCCCGTGTACCCCTTCTTCGATGTGTGCTGGCACGACAAGGGCAAGAATGCCCAGCCGCTGCTG
MG53mut (1288) TCTGATGCCGACGCCCTGGTGCCTCTGTTCGCCTTCCATGAGCGGCTGCCTCGGCCCGTGTACCCCTTCTTCGATGTGTGCTGGCACGACAAGGGCAAGAACGCCCAGCCTCTGCTG
Consensus (1288) GA GCCGACGC CT GTGCC CT TT GCCTTCCA GAGCG CTGCC GGCCCGTGTACCCCTTCTTCGA GTGTGCTGGCACGACAAGGGCAAGAA GCCCAGCC CTGCTG

Fig. 1

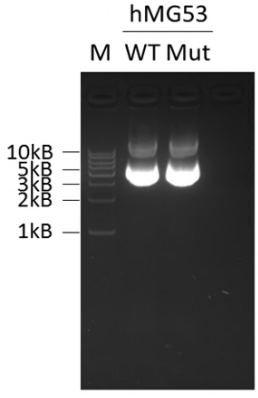

hMG53
M WT Mut
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Fig. 2

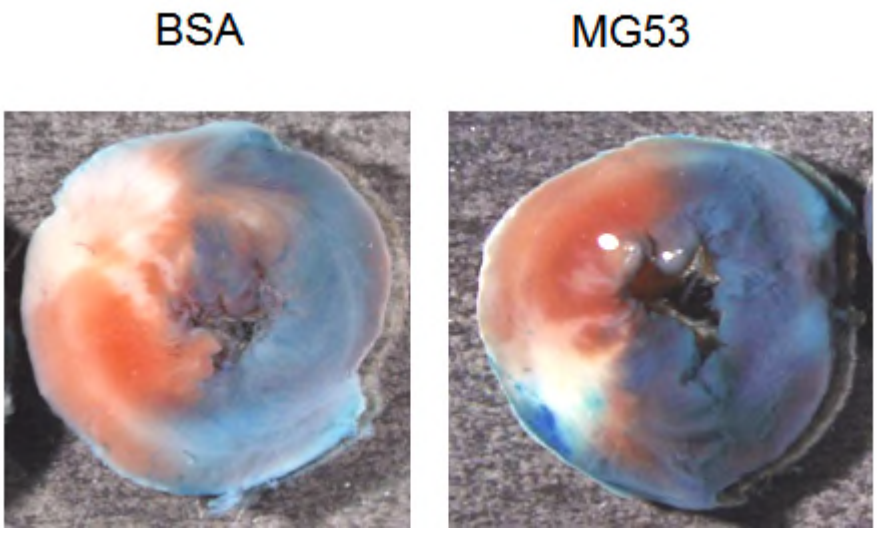


Fig. 3

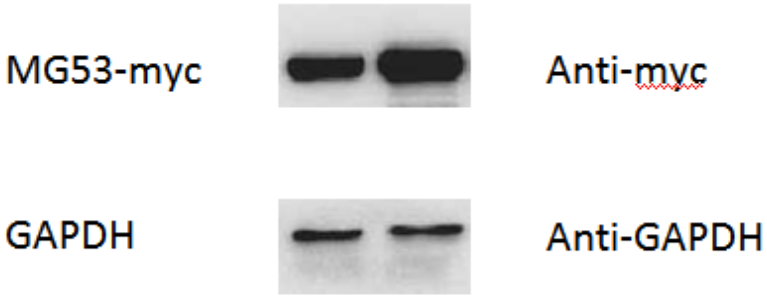


Fig. 4

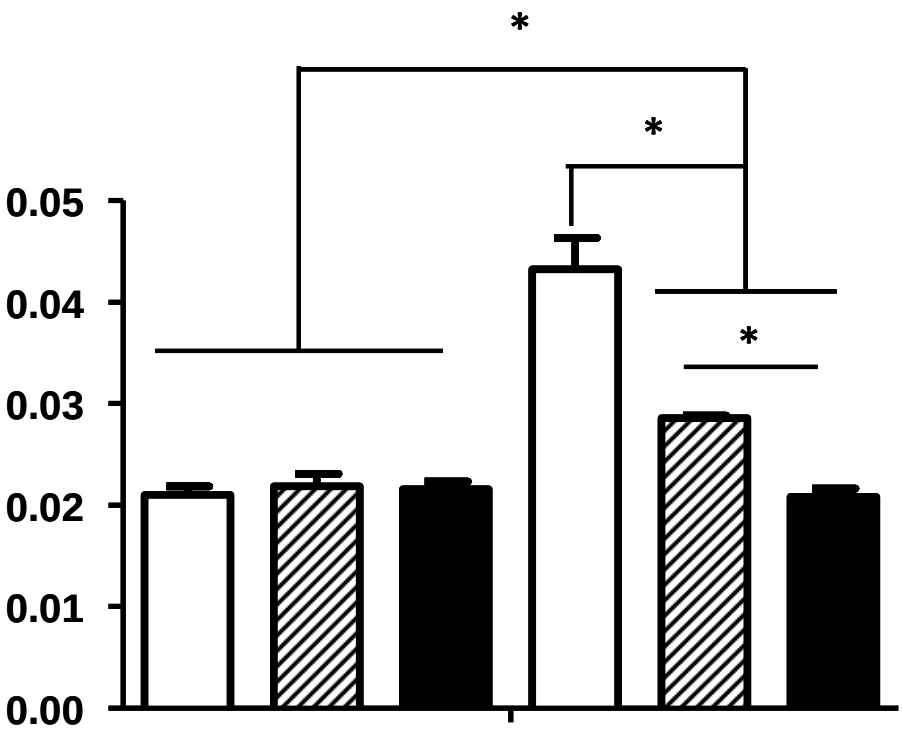


Fig. 5