Figure S6

FGF6 Mutation Plasmid Structure

M1 Plasmid [GAG -> TAG] **E172X**

ATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCA
GGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCC
TAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACA
ACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGT
CTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAA
GTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCA
ACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGA
TCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTT
CCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTG
CCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCC
CAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAA
CAATTACAATGCCTACTAGTCAGACTTGTACCAAGGGACCTACATT
GCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTC
CCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAA

Point Mutation Construct Primers

F1 : ATACTCGGATCCGCCACCATG
R1 : CTTGGTACAAGTCTGACTAGTAGGCATTG
F2 : CAATGCCTACTAGTCAGACTTGTACCAAG
R2 : GCTGCAGAATTCTTACGTAATCTGGAA

FGF6 Mutation Plasmid Structure

M2 Plasmid [GAC -> GTC] **D174V**

ATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCA
GGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCC
TAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACA
ACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGT
CTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAA
GTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCA
ACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGA
TCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTT
CCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTG
CCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCC
CAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAA
CAATTACAATGCCTACGAGTCAGTCTTGTACCAAGGGACCTACATT
GCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTC
CCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAA

Point Mutation Construct Primers

F1 : ATACTCGGATCCGCCACCATG
R1 : GGTACAAGACTGACTCGTAGGCATTG
F2 : CTACGAGTCAGTCTTGTACCAAGGGA
R2 : GCTGCAGAATTCTTACGTAATCTGGAA

FGF6 Mutation Plasmid Structure

M3 Plasmid [CGG ->CAG] **R188Q**

ATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCA
GGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCC
TAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACA
ACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGT
CTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAA
GTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCA
ACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGA
TCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTT
CCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTG
CCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCC
CAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAA
CAATTACAATGCCTACGAGTCAGACTTGTACCAAGGGACCTACATT
GCCCTGAGCAAATACGGACAGGTAAAGCGGGGCAGCAAGGTGTC
CCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAA

Point Mutation Construct Primers

F1 : ATACTCGGATCCGCCACCATG
R1 : CGCTTTACCTGTCCGTATTTGCTC
F2 : GAGCAAATACGGACAGGTAAAGCG
R2 : GCTGCAGAATTCTTACGTAATCTGGAA