

FGF6 Mutation Plasmid Structure

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

```
ATGGCCCTGGGACAGAACTGTTCACTACTATGTCCCGGGGAGCA
GGACGTCTGCAGGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCC
TAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACA
ACACGCTGCTGGACTCGAGGGGGCTGGGGCACCCTGCTGTCCAGGT
CTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGGTGAACTGGGAAA
GTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCA
ACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGA
TCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTT
CCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTG
CCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCC
CAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAA
CAATTACAATGCCTACTAGTCAGACTTGTACCAAGGGACCTACATT
GCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTC
CCCGATCATGACTGTCACCTCATTTCCTTCCCAGGATCTAA
```

Point Mutation Construct Primers

F1 : ATACTCGGATCCGCCACCATG

R1 : CTTGGTACAAGTCTGACTAGTAGGCATTG

F2 : CAATGCCTACTAGTCAGACTTGTACCAAG

R2 : GCTGCAGAATTCTTACGTAATCTGGAA

FGF6 Mutation Plasmid Structure

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

```
ATGGCCCTGGGACAGAAACTGTTTCATCACTATGTCCCAGGGGAGCA
GGACGTCTGCAGGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCC
TAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACA
ACACGCTGCTGGACTCGAGGGGGCTGGGGCACCCTGCTGTCCAGGT
CTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGGTGAACTGGGAAA
GTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCA
ACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGA
TCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTT
CCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTG
CCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCC
CAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAA
CAATTACAATGCCTACGAGTCAGTCTTGTACCAAGGGACCTACATT
GCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTC
CCCGATCATGACTGTCACCTCATTTCCTTCCCAGGATCTAA
```

Point Mutation Construct Primers

F1 : ATACTCGGATCCGCCACCATG

R1 : GGTACAAGACTGACTCGTAGGCATTG

F2 : CTACGAGTCAGTCTTGTACCAAGGGA

R2 : GCTGCAGAATTCTTACGTAATCTGGAA

FGF6 Mutation Plasmid Structure

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

```
ATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCA
GGACGTCTGCAGGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCC
TAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACA
ACACGCTGCTGGACTCGAGGGGGCTGGGGCACCCTGCTGTCCAGGT
CTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGGTGAACTGGGAAA
GTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCA
ACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGA
TCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTT
CCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTG
CCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCC
CAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAA
CAATTACAATGCCTACGAGTCAGACTTGTACCAAGGGACCTACATT
GCCCTGAGCAAATACGGACAGGTAAAGCGGGGCAGCAAGGTGTC
CCCGATCATGACTGTCACCTCATTTCCTTCCCAGGATCTAA
```

Point Mutation Construct Primers

F1 : ATACTCGGATCCGCCACCATG

R1 : CGCTTTACCTGTCCGTATTTGCTC

F2 : GAGCAAATACGGACAGGTAAAGCG

R2 : GCTGCAGAATTCTTACGTAATCTGGAA