Hi Shuai,

Please check the following 3 different mRNAs.

Step 1. Wild Type:

TTTAGGGCCATTAATTCTGACCACGTGCCTGAGAGGCAAGGTGGATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCAGGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCCTAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACAACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGTCTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAAGTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCAACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGATCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTTCCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTGCCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCCCAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAACAATTACAATGCCTACGAGTCAGACTTGTACCAAGGGACCTACATTGCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTCCCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAAGGACCCACAAAAGAAGGCTCACAGATTTAAAGCATCATCTGTTCGATTGAAATTTTGCACCAGCGAAGAATTC

Step 2. FGF6 NM\_020996 Protein Sequence:

MALGQKLFITMSRGAGRLQGTLWALVFLGILVGMVVPSPAGTRANNTLLDSRGWGTLLSRSRAGLAGEIAGVNWESGYLVGIKRQRRLYCNVGIGFHLQVLPDGRISGTHEENPYSLLEISTVERGVVSLFGVRSALFVAMNSKGRLYATPSFQEECKFRETLLPNNYNAYESDLYQGTYIALSKYGRVKRGSKVSPIMTVTHFLPRI

Note:

The first yellow: FGF6:NM\_020996:exon3:c.G514T:p.E172X [GAG -> TAG]

The second yellow: FGF6:NM\_020996:exon3:c.A521T:p.D174V [GAC -> GTC]

The third yellow: FGF6:NM\_020996:exon3:c.G563A:p.R188Q [CGG ->CAG]

***Result 1. The first yellow: FGF6:NM\_020996:exon3:c.G514T:p.E172X***

TTTAGGGCCATTAATTCTGACCACGTGCCTGAGAGGCAAGGTGGATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCAGGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCCTAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACAACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGTCTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAAGTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCAACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGATCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTTCCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTGCCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCCCAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAACAATTACAATGCCTACTAGTCAGACTTGTACCAAGGGACCTACATTGCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTCCCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAAGGACCCACAAAAGAAGGCTCACAGATTTAAAGCATCATCTGTTCGATTGAAATTTTGCACCAGCGAAGAATTC

**Result2. FGF6:NM\_020996:exon3:c.A521T:p.D174V**

TTTAGGGCCATTAATTCTGACCACGTGCCTGAGAGGCAAGGTGGATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCAGGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCCTAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACAACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGTCTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAAGTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCAACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGATCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTTCCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTGCCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCCCAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAACAATTACAATGCCTACGAGTCAGTCTTGTACCAAGGGACCTACATTGCCCTGAGCAAATACGGACGGGTAAAGCGGGGCAGCAAGGTGTCCCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAAGGACCCACAAAAGAAGGCTCACAGATTTAAAGCATCATCTGTTCGATTGAAATTTTGCACCAGCGAAGAATTC

**Result 3. FGF6:NM\_020996:exon3:c.G563A:p.R188Q**

TTTAGGGCCATTAATTCTGACCACGTGCCTGAGAGGCAAGGTGGATGGCCCTGGGACAGAAACTGTTCATCACTATGTCCCGGGGAGCAGGACGTCTGCAGGGCACGCTGTGGGCTCTCGTCTTCCTAGGCATCCTAGTGGGCATGGTGGTGCCCTCGCCTGCAGGCACCCGTGCCAACAACACGCTGCTGGACTCGAGGGGCTGGGGCACCCTGCTGTCCAGGTCTCGCGCCGGGCTAGCTGGAGAGATTGCCGGGGTGAACTGGGAAAGTGGCTATTTGGTGGGGATCAAGCGGCAGCGGAGGCTCTACTGCAACGTGGGCATCGGCTTTCACCTCCAGGTGCTCCCCGACGGCCGGATCAGCGGGACCCACGAGGAGAACCCCTACAGCCTGCTGGAAATTTCCACTGTGGAGCGAGGCGTGGTGAGTCTCTTTGGAGTGAGAAGTGCCCTCTTCGTTGCCATGAACAGTAAAGGAAGATTGTACGCAACGCCCAGCTTCCAAGAAGAATGCAAGTTCAGAGAAACCCTCCTGCCCAACAATTACAATGCCTACGAGTCAGACTTGTACCAAGGGACCTACATTGCCCTGAGCAAATACGGACAGGTAAAGCGGGGCAGCAAGGTGTCCCCGATCATGACTGTCACTCATTTCCTTCCCAGGATCTAAGGACCCACAAAAGAAGGCTCACAGATTTAAAGCATCATCTGTTCGATTGAAATTTTGCACCAGCGAAGAATTC