**your query oligo was:** ATCGTTATCG

**complement oligo is:** TAGCAATAGC

**reverse oligo is:** GCTATTGCTA

**reverse complement oligo is:** CGATAACGAT

**your highlighted gene is below. forward matches are green, complement matches in yellow, reverse matches in teal, and reverse complement matches in pink.**

ATGGTCAGACGTTATCTCCCCCTTAACCCGCTGCGCGCCTTTGAGGCCGCCGCCCGTCATCTCAGTTTTACCCGCGCGGCGATTGAGCTGAATGTCACCCATGCCGCCGTCAGCCAGCAGGTCAGGGCGCTGGAAGAACAACTCGGCTGTGTGCTGTTTACCCGCGTCTCGCGCGGGCTGGTGCTGACCCATGAAGGTGAGGGATTACTGCCGGTGCTCAATGAGGCGTTTGACCGGATTGCGGATACTCTGGAGTGTTTTTCTCACGGGCAGTTCCGTGAGCGGGTGAAAGTCGGTGCGGTGGGAACATTTGCCGCAGGCTGGCTGCTGCCGCGTCTGGCCGGATTCTATGACAGCCATCCGCATATTGATCTGCATATCTCCACCCATAACAATCATGTGGACCCGGCGGCGGAAGGGCATGATTATACGATCCGTTTCGGTAACGGCGCGTGGCATGAGTCAGATGCGGAACTGATTTTCAGTGCACCACACGCTCCGCTGTGCTCACCGGCCATTGCAGAACAGTTACAGCAGCCGGATGATGTTCACCGCTTTACCCTGCTGCGCTCATTCCGCCGGGATGAATGGAGCCGCTGGCTGGATTGTGCGGGCGGCACACCGCCTTCCCCGTCACAGCCGGTAATGGTGTTCGATACCTCACTGGCCATGGCCGAGGCGGCACAACTGGGTGCCGGGGTAGCGATCGCACCGGTATGTATGTTCAGCCGCCTGTTACAGTCAGGCGCACTGGTACAGCCGTTTGCCGCAGAAATCACCCTCGGCGGCTACTGGCTGACGCGGTTACAGTCCCGTACGGAAACCCCGGCCATGCAGCAATTCGCCCGCTGGCTGCTGAATACGGCGGCGGCGTAA

**(please note that amino acid conversion does not look for reading frame, and starts from the first 3 nucleotides)**

**Amino Acid sequence below:**

MVRRYLPLNPLRAFEAAARHLSFTRAAIELNVTHAAVSQQVRALEEQLGCVLFTRVSRGLVLTHEGEGLLPVLNEAFDRIADTLECFSHGQFRERVKVGAVGTFAAGWLLPRLAGFYDSHPHIDLHISTHNNHVDPAAEGHDYTIRFGNGAWHESDAELIFSAPHAPLCSPAIAEQLQQPDDVHRFTLLRSFRRDEWSRWLDCAGGTPPSPSQPVMVFDTSLAMAEAAQLGAGVAIAPVCMFSRLLQSGALVQPFAAEITLGGYWLTRLQSRTETPAMQQFARWLLNTAAA\*

**Index match info below:**

Forward sequence match found at index 7 with 3 SNPs

Matching sequence : GACGTTATCT

Reverse sequence match found at index 176 with 3 SNPs

Matching sequence : GCTGGTGCTG

Reverse complement sequence match found at index 386 with 2 SNPs

Matching sequence : CCATAACAAT

Forward sequence match found at index 432 with 3 SNPs

Matching sequence : ATCCGTTTCG

Forward sequence match found at index 438 with 3 SNPs

Matching sequence : TTCGGTAACG

Reverse complement sequence match found at index 440 with 3 SNPs

Matching sequence : CGGTAACGGC

Reverse sequence match found at index 513 with 3 SNPs

Matching sequence : GCCATTGCAG

Reverse complement sequence match found at index 640 with 3 SNPs

Matching sequence : CGGTAATGGT

Forward sequence match found at index 645 with 3 SNPs

Matching sequence : ATGGTGTTCG

Complement sequence match found at index 664 with 3 SNPs

Matching sequence : TGGCCATGGC

Reverse complement sequence match found at index 697 with 3 SNPs

Matching sequence : GGGTAGCGAT

Complement sequence match found at index 700 with 2 SNPs

Matching sequence : TAGCGATCGC