

Effects of Repeat Annotation on Blast Results

Blast Command: blastall -p tblastn -m 8 -z 3.1e9 -e .1 ... (version: 2.2.13)

Blast ENSP00000375570 against human genome release 55:

```
ENSP00000375570 1 + 77207154 77207552
```

```
ATGGTGGACGCCCGTCCGCCACTAAGCTCAAGCGTCCTAGGTCGACTTCAGACCACTGTGCTGGCAGCAAGAATTTCAAGCTAGTGGATAT  
TAGCTTACTGGGTTTTGTAGAGGTGGAATCCACTGAGCTAGACCACTTGTCTCCCTGGCTTCAGCCCCCTTTCCAGGAGAGTGACCGGTTTT  
GTTTCACTGGCATTCCAGGCGCCACTGGGGTATGAAAGAAAACTCCTGCAGCTGGTTCAGTGTCTTCCCAAACGGGCACCCAGTTTTGTG  
CTTGAAACTTAGGGCCCTGGTGGTGTAGGCACCCAAAGGAATCACCTCGTCTGTGGGTTGCAAAGACCGTGGGAAGAGTGTAGTATCTGGG  
CAGAAATGCACTGTTCCCTCAAAGCAGAGTCCCT
```

Same region in human genome release 59:

```
ENSP00000375570 1 + 77207154 77207552
```

```
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
```

No blast results returned for ENSP00000375570 when blast human genome release 59, hence no p-gene will be derived from that protein.

Summary on Chromosome 1



