

Product datasheet for **RG235856**

Prol1 (OPRPN) (NM_001302807) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prol1 (OPRPN) (NM_001302807) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Prol1
Synonyms: BPLP; opiorphin; PRL1; PROL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235856 representing NM_001302807.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAATTAACCTTCTTCTGGGCTGTTGGCTCTATTTTCATGTTTCACATCAGCGGTTGCTAAGCAT
GAAGGGACAGTGGACTGCAGGAAGAGGACACAGGGCAGCCAGTGAGAGTCAAAGATTCTCCAGAAGAC
CATATCTACCTGGCCAGCTGCCACCACCTCCACTCTACAGGCCAAGATGGGTTCCACCAAGTCCCCAC
CTCCCTATGACTCAAGACTTAATTCACCACTTTCTTCCCTTTGTCCAGGGCGAGTTCACCATCTT
CTTTCTCTCGATTTAGCCAAGCAGTCATTCTATCTCAACTTTTCCATTGGAATCTATTAGACAACCTC
GACTCTTTCGGGTTATCCAAACCTACATTTCCAC
ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235856
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MKLTFFLGLLALISCFTSAVAKHEGTVDCRKRTQGSPVRVKDSPEDHIYLASCHHLHSTGQDGFHQVPH
LPMTQDLIHHFLFPLSQGEFHLLSLDLAKQSFYLNFSFHWNLNLDLDFRVIQTYISH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

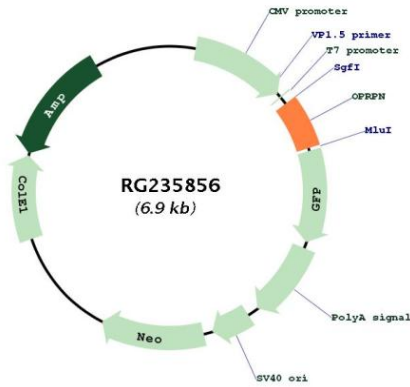


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Gene Summary:

This gene encodes a member of the proline-rich protein family. The encoded protein has multiple proposed functions, including roles in pain suppression, penile erection, and protection of the eye surface. The QRFSR pentapeptide, known as opiorphin, is derived from the N-terminal of this protein. Opiorphin inhibits the enkephalin-inactivating peptidases neprilysin and aminopeptidase N, and this activity is thought to reduce sensitivity to painful stimuli by effecting enkephalin-related activation of opioid-dependent pathways. Opiorphin may also act as an anti-depressant. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RG235856