

Product datasheet for **RG211538**

Persephin receptor (GFRA4) (NM_145762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Persephin receptor (GFRA4) (NM_145762) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Persephin receptor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211538 representing NM_145762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCGCTGCCTGGGGCCTGCGCTGCTGCTGCTGTTACTGGGGTCGGCGAGCTCGGTGGAGGGA
ACCGATGTGTGGACGCGGCCGAAGCCTGCACGGCGGACGCGCGGTGCCAGCGTTTGCGCTCCGAGTATGT
GGCGCAGTGCTGGGCCGGGTGCGCAGGGGGGTGTCCCGCGCCCGCTGCCGCCGGGCCCTGCGCCGC
TTCTTCGCCCCGCGGGCCGCCGCGCTCACCCACGCACTGCTCTTCTGCCCGTGCGCGGGCCCCGCGTGCG
CCGAGCGTCGGGCCAGACCTTCGTGCCCTCCTGCGCCTTTTCGGGGCCCGCCCGCGCCCTCCTG
CCTTGAGCCCTTAACTTCTGCGAGCGCAGCCGGGTCTGCAGGTGCGCGCGGGCGCGGGGGCCGTGG
CGAGGGTGGGGACGGGGCTCTCTCCGGCTCACCGCCCTCCCGCCGCGCAGGCCTCGCCTCCTGGCCTTT
CAGGTCTCGTGACCCCGAGCGCCAGCGCCCCGACGGTGCCTGCTGGACCAGGGCGCCCGCTGCCTGC
GCGCCTACGCGGGCCTCGTGGGGTCCCCGAGGCACCGCCGTACCCCTAACTACGTGGACAACGTGAGC
GCGCGCTGGCGCCCTGGTGCAGTGGGAGCCAGCGGAACCGCGTGAGGACTGCGAAGCCTTCCGGG
GGCTCTTTACCAGGAACCGCTGCTTGGATGGTGCCATTCAGGCCTTTCAGCGGGTGGCCCCAGTCTCT
GCTGGACCAGCTGAACCCCGAGGAGACCCGAGCACAGCCTCCTGCAGGTGTCTCCACAGGCAGGGCC
CTGGAGAGACGCTCCCTGCTCTCATACTTCTGTCTGGCTCTCCCGGCCCTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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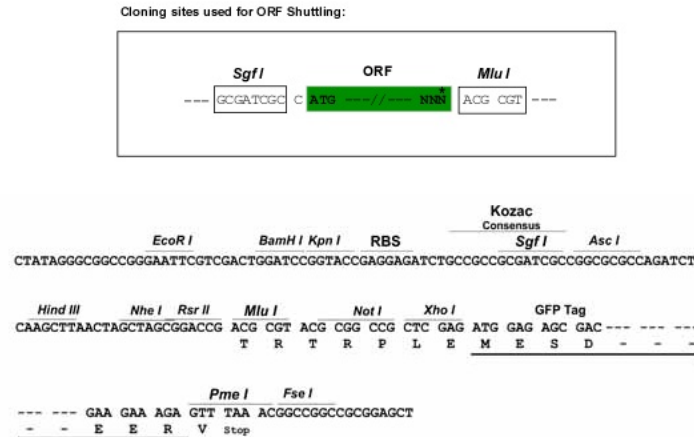
Protein Sequence: >RG211538 representing NM_145762
 Red=Cloning site Green=Tags(s)

MVRCLGPALLLLLLLSASSVGGNRCVDAAEACTADARCQRLRSEYVAQCLGRAAQGGCPRARCRRALRR
 FFARGPPALTHALLFCPCAGPACAERRRQTFVPSCAFSGPGPAPPSCLEPLNFCERSRVRCARAAAGPW
 RGWGRGLSPAHRPPAAQASPPGLSGLVHPSAQRPRRLPAGPGRPLPARLRGPRGVPAGTAVTPNYVDNVS
 ARVAPWCDCGASGNRRDCEAFRGLFTRNRCLDGAIQAFASGWPPVLLDQLNPQGDPEHSLQLQVSSTGRA
 LERRSLLSILPVLALPALL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145762

ORF Size: 897 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145762.3](#)

RefSeq Size: 1517 bp

RefSeq ORF: 900 bp

Locus ID: 64096

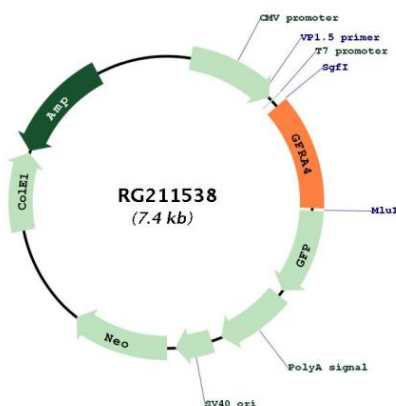
UniProt ID: [Q9GZZ7](#)

Cytogenetics: 20p13

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for persephin, and mediates activation of the RET tyrosine kinase receptor. This gene is a candidate gene for RET-associated diseases. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211538