

Product datasheet for **SC326898**

GDNF Receptor alpha 2 (GFRA2) (NM_001165039) Human Untagged Clone

Product data:

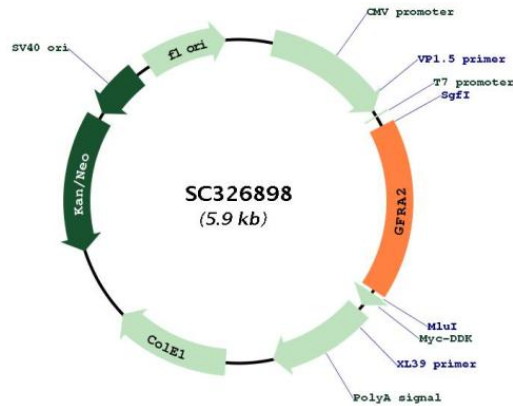
Product Type:	Expression Plasmids
Product Name:	GDNF Receptor alpha 2 (GFRA2) (NM_001165039) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFRA2
Synonyms:	GDNFRB; NRTNR-ALPHA; NTNRA; RETL2; TRNR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326898 representing NM_001165039. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCTTGGCAAACGTCTTCTGCCTCTTCTTCTTCTAGGGACAGGGGCAGACCCGGTGGTCAGCGCC
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GCCCTGCGCCAGTTCTTCGACCGGGTGCCAGCGAGTACACCTACCGCATGCTCTTCTGCTCCTGCCAA
GACCAGGCGTGCCTGAGCGCCCGGCAAACCATCCTGCCAGCTGCTCCTATGAGGACAAGGAGAAG
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CATGCCAATTGTCGAGCCTCCTACCAGACGGTACCAGCTGCCCTGCGGACAATTACCAGGCGTGTCTG
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GACCTCAGTGACAGTACCAGCTTGGGGACCAAGTGCATCACCACTGCACGTCTGTCCAGGAGCAGGGG
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TCTGTCTGATGCTGAACTGGCCTTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001165039

Insert Size: 996 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_001165039.1](#)

RefSeq Size: 2977 bp

RefSeq ORF: 996 bp

Locus ID: 2675

UniProt ID: [O00451](#)

Cytogenetics: 8p21.3

Protein Families: Druggable Genome

MW: 36.5 kDa

Gene Summary: Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. The protein encoded by this gene is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This encoded protein acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1. This gene is a candidate gene for RET-associated diseases. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (3) lacks two alternate in-frame exons in the 5' coding region, compared to variant 1. The resulting isoform (c) lacks an internal segment near the N-terminus, compared to isoform a. It is not known if this variant is targeted to the cell membrane.