

## Product datasheet for **SC127971**

### GDNF Receptor alpha 1 (GFRA1) (NM\_005264) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GDNF Receptor alpha 1 (GFRA1) (NM_005264) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDNF Receptor alpha 1
Synonyms:	GDNFR; GDNFRA; GFR-ALPHA-1; GFRalpha-1; RET1L; RETL1; TRNR1
Mammalian Cell Selection:	None
Vector:	<a href="#"><u>pCMV6-XL5</u></a>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC127971 sequence for NM\_005264 edited (data generated by NextGen Sequencing)

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ATGTTCTGCGGACCCCTGTAAGTTCGCGCTGCCGCTCTTGGACTTGCTCCTGTGCGCCGAA
GTGAGCGGCGGAGACCGCTGGATTGCGTGAAAGCCAGTGATCAGTGCCTGAAGGAGCAG
AGCTGCAGACCAAGTACCGCACGCTAAGGCAGTGCCTGGCGGGCAAGGAGACCACTTC
AGCCTGGCATCCGGCCTGGAGGCCAAGGATGAGTGCCGCAGGCCATGGAGGCCCTGAAG
CAGAAGTCGCTCTACAAGTCCGCTGCAAGCGGGTATGAAGAAGGAGAAGAAGTGCCTG
CGCATTTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGATCTGCTGGAGGATCCCCA
TATGAACCAGTTAACAGCAGATTGTCAGATATATTCCGGGTGGTCCCATTATATCAGAT
GTTTTTACAGAAAGTGGAGCACATCCCAAAGGGAACAAGTGCCTGGATGCAGCGAAGGCC
TGCAACCTCGACGACATTTGCAAGAAGTACAGGTGGCGTACATCACCCCGTGCACCACC
AGCGTGTCCAACGATGTCTGCAACCGCCGCAAGTGCACAAGGCCCTCCGGCAGTTCTTT
GACAAGTCCCGGCAAGCACAGCTACGGAATGCTCTTCTGCTCCTGCCGGGACATCGCC
TGACAGAGCGGAGGCGACAGACCATCGTGCCTGTGTGCTCCTATGAAGAGAGGGAGAAG
CCCAACTGTTTGAATTTGCAAGACTCCTGCAAGACGAATTACATCTGCAGATCTCGCCTT
GCGGATTTTTTTACCAACTGCCAGCCAGAGTCAAGGTCTGTGAGCAGCTGTCTAAAGGAA
AACTACGCTGACTGCCTCCTCGCCTACTCGGGGCTTATTGGCACAGTCATGACCCCAAC
TACATAGACTCCAGTAGCCTCAGTGTGGCCCATGGTGTGACTGCAGCAACAGTGGGAAC
GACCTAGAAGAGTGTGAAATTTTTGAATTTCTTCAAGGACAATACATGTCTTAAAAAT
GCAATTCAGCCTTTGGCAATGGCTCCGATGTGACCGTGTGGCAGCCAGCCTTCCAGTA
CAGACCACCACTGCCACTACCACCACTGCCCTCCGGGTAAAGAACAAGCCCTGGGGCA
GCAGGGTCTGAGAATGAAATCCCACTCATGTTTTGCCACCGTGTGCAAAATTTACAGGCA
CAGAAGCTGAAATCCAATGTGTGGGCAATACACACCTGTATTTCCAATGGTAATTAT
GAAAAAGAAGGTCTCGGTGCTTCCAGCCACATAACCACAAAAATCAATGGCTGCTCCTCCA
AGCTGTGGTCTGAGCCCACTGCTGGTCCCTGGTGGTAACCGCTCTGTCCACCCATTATCT
TTAACAGAAACATCATAG
    
```

Clone variation with respect to NM\_005264.4

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005264 unedited

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NNNNNGGGGAAGTTCAAAATTTGTAATAGACTCATATAGGCGGCCGCGAAATTCGCACGAG
GGATAAAGTGAGCCCGGAAAGNAGAGGGGGCGGGACACCATNNTGCCCTGAAANAAT
AAATAAGTAAATAAACAACTGGCTCCTCGCCGACGCTGGACGCGGTTCGGTTGAGTCCAG
GTTGGGTGCGACCTGAACCCCTAAAAGCGGAACCGCCTCCCGCCCTCGCCATCCCGGAGC
TGAGTCCCGGCGGCGGTGGCTGCTGCCAGACCCGAGTTTCTCTTTCACTGGATGGAG
CTGAACTTTGGGCGGCCAGAGCAGCACAGCTGTCCGGGATCGCTGCATGCTGAGCTCCC
TCGGCAAGACCCAGCGGCGCTCGGGATTTTTTTNNGGGGGGCGGGGACCAGCCCGCCG
CGGCACCATGTTCTGGCGACCCTGTAAGTTCGCGCTGCCGCTCTTGGACTTGCTCCTGTC
GGCCGAAGTGAGCGGCGGAGACCGCCTGGATTGCGTGAAAGCCAGTGATCAGTGCCTGAA
GGAGCAGAGCTGCAGACCAAGTACCGCACGCTAAGGCAGTGCCTGGCGGCAAGGAGAC
CAACTTCAGCCTGGCATCCGGCCTGGAGGCCAAGGATGAGTGCCGCAGCGCCATGGAGGC
CCTGAAGCAGAAGTGCCTCTACAAGTCCGCTGCAAGCGGNGTATGAAGAAAGAGAAGAA
CTGCTGCGCATTTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGATCTGCTGGAGGA
TTCCCATATGAACCAGTTAACAGCAGATTGTCAGATATATTCCGGGT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005264 unedited ATGGACCATGGATGATGGCACTTCCAGGNCCAGNANAGCACTGGGGNAGGGTCACAGGGC ATGCCACCCGGGCTCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGT TTTTTTTTTTTTTTTTTTTTTACATGTCCATATTGTATTTTTTAAATGCAGCTATGAT GTTTCTGTAAAGATAATAGGGTGGACAGAGCGGTTACCACCAGGACCAGCAGTGGGCTC AGACCACAGCTTGGAGGAGCAGCCATTGATTTTGTGGTTATGTGGCTGGAAGCACCGAGA CCTTCTTTTTTATAATTACCATTGGAAATACAGAGGTGTGTATTGCCCGACACATTGGAT TTCAGCTTCTGTGCCTGTAATTTGCACACGGTGGCAAAACATGAGTGGGAATTTTCATTC TCAGACCTGCTGGCCCCAGGGCTTGTCTTAACCCGGAGGGCAGTGGTGGTAGTGGCA GTGGTGGTCTGTACTGGGAAGGCTGGCTGCCACACGGTCACATCGGAGCCATTGCCAAAG GCTTGAATTGCATTTTTAAGACATGTATTGTCCTTGAAGAAATCAAAAATTTCAAGCAC TCTTCTAGGTCGTTCCCACTGTTGCTGCAGTCACACCATGGGGCCACACTGAGGCTACTG GAGTCTATGTAGTTGGGGTTCATGACTGTGCCAATAAGCCCCGAGTAGGCGAGGAGGCAG TCAGCGTAGTTTTCTTTAAACAGCTGCTGACAGACCTTGACTCTGGCTGGCAGTTGGTA AAAAAATCCGCAGCGAGATCTGCAGATGTAATTCGTCTTGCAGGAGCTCTGCCAATCCA AACAGTTGGGCTTCTCCCTCTTCTTAGGAGCCCACGGCACGAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005264
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005264.2</a> , <a href="#">NP_005255.1</a>
<b>RefSeq Size:</b>	2542 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	2674
<b>UniProt ID:</b>	<a href="#">P56159</a>
<b>Cytogenetics:</b>	10q25.3
<b>Domains:</b>	GDNF
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a member of the glial cell line-derived neurotrophic factor receptor (GDNFR) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature receptor. 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. This receptor is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This gene is a candidate gene for Hirschsprung disease. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 6 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.