

## Product datasheet for **RG226704**

### **GDNF Receptor alpha 1 (GFRA1) (NM\_001145453) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GDNF Receptor alpha 1 (GFRA1) (NM_001145453) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GFRA1
Synonyms:	GDNFR; GDNFRA; GFR-ALPHA-1; GFRalpha-1; RET1L; RETL1; TRNR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226704 representing NM\_001145453  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTGGCGACCCTGTACTTCGCGCTGCCGCTCTTGGACTTGCTCCTGTCGGCCGAAGTGAGCGGCG  
 GAGACCGCTGGATTGCGTGAAAGCCAGTGATCAGTGCCTGAAGGAGCAGAGCTGCAGCACCAGTACCG  
 CACGCTAAGGCAGTGCCTGGCGGCAAGGAGACCAACTTCAGCCTGGCATCCGGCCTGGAGGCCAAGGAT  
 GAGTGCCGACGCGCCATGGAGGCCCTGAAGCAGAAGTCGCTCTACAACCTGCCGCTGCAAGCGGGTATGA  
 AGAAGGAGAAGAAGTGCCTGCGCATTTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGATCTGCTGGA  
 GGATCCCATATGAACAGTTAACAGCAGATTGTGAGATATATCCGGTGGTCCCATTCATATCAGTG  
 GAGCACATCCCAAAGGGAACAAGTGCCTGGATGCAGCGAAGGCCTGCAACCTCGACGACATTTGCAAGA  
 AGTACAGGTCCGGGTACATCACCCGTGCACCACAGCGTGTCCAATGATGTCTGCAACCCGCCGAAGTG  
 CCAAGGCCCTCCGGCAGTTCTTTGACAAGTCCCGCCAAGCACAGCTACGGAATGCTCTTCTGCTCC  
 TGCCGGGACATCGCTGCACAGAGCGGAGGCGACAGACCATCGTGCCTGTGTGCTCCTATGAAGAGAGGG  
 AGAAGCCCAACTGTTGAATTTGCAAGACTCCTGCAAGACGAATTACATCTGCAGATCTCGCCTTGGCGA  
 TTTTTTACCAACTGCCAGCCAGAGTCAAGGTCTGTGACGAGCTGTCTAAAGGAAAACACTGCTGACTGC  
 CTCCTCGCTACTCGGGCTTATTGGCAGATCATGACCCCAACTACATAGACTCCAGTAGCCTCAGTG  
 TGGCCCATGGTGTGACTGCAGCAACAGTGGGAACGACCTAGAAGAGTGTGAAATTTTGAATTTCTT  
 CAAGGACAATACATGTCTTAAAATGCAATTCAAGCCTTTGGCAATGGTCCGATGTGACCGTGTGGCAG  
 CCAGCCTTCCAGTACAGACCACACTGCCACTACCACACTGCCCTCCGGGTTAAGAACAAGCCCTGG  
 GGCCAGCAGGCTGAGAATGAAATCCCACTCATGTTTTGCCACCGTGTGCAAATTTACAGGCACAGAA  
 GCTGAAATCCAATGTGTGGGCAATACACACCTCTGTATTTCCAATGGTAATTATGAAAAAGAAGGTCTC  
 GGTGCTTCCAGCCACATAACCACAAAATCAATGGCTGCTCCTCCAAGCTGTGGTCTGAGCCCACTGCTGG  
 TCCTGGTGGTAACCGCTCTGTCCACCCTATTATCTTTAACAGAAACATCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG226704 representing NM\_001145453  
 Red=Cloning site Green=Tags(s)

MFLATLYFALPLDLLLSAEVSGGDRLDVCVKASDQCLKEQSCSTKYRTLRCQVAGKETNFSLASGLEAKD  
 ECRSAMEALKQKSLYNCRCKRGMKKEKCNLRIYWSMYQSLQGNLLEDSPYEPVNSRLSDIFRVVPIVSV  
 EHIPKGNCLDAAKACNLDDICKKYRSAYITPCTTSVSNVDCNRRKCHKALRQFFDKVPKHSYGMFLCS  
 CRDIACERRRQTIVPVCSEEREKPNLNLQDSCKTNYICRSRLADFFTNCQPESSVSSCLKENYADC  
 LLAYSGLIGTVMTPNYIDSSSLVAPWDCSNSGNDLEECLKFLNFFKDNTCLKNAIQAFNGSDVTWVQ  
 PAFPVQTTTATTTALRVKNKPLGPAGSENEIPTHVLPCCANLQAQKLKSNVSGNTHLCISNGNYEKEGL  
 GASSHITTKSMAAPPSCGLSPLLVLVVTALSTLLSLTETS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<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>	<u><a href="#">NM_001145453.1</a></u> , <u><a href="#">NP_001138925.1</a></u>
<b>RefSeq Size:</b>	9235 bp
<b>RefSeq ORF:</b>	1383 bp
<b>Locus ID:</b>	2674
<b>UniProt ID:</b>	<u><a href="#">P56159</a></u>
<b>Cytogenetics:</b>	10q25.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p>