

## Product datasheet for **RG207966**

### p75 NGF Receptor (NGFR) (NM\_002507) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	p75 NGF Receptor (NGFR) (NM_002507) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	p75 NGF Receptor
Synonyms:	CD271; Gp80-LNGFR; p75(NTR); p75NTR; TNFRSF16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207966 representing NM_002507 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCAGGTGCCACCGGCCGCGCCATGGACGGGCCGCGCCTGCTGCTGTTGCTGCTTCTGGGGGTG  
CCCTTGGAGGTGCCAAGGAGGCATGCCCCACAGGCCTGTACACACACAGCGGTGAGTGCTGCAAAGCCTG  
CAACCTGGGCGAGGGTGTGGCCAGCCTTGTGGAGCCAACCAGACCGTGTGTGAGCCCTGCCTGGACAGC  
GTGACGTTCTCCGACGTGGTGGAGCGGACCGAGCCGTGCAAGCCGTGCACCGAGTGGTGGGGCTCCAGA  
GCATGTGGGCGCGTGGTGGAGGCCGACGACCGGTGTGCCGCTGCGCCTACGGCTACTACCAGGATGA  
GACGACTGGGCGCTGCGAGGCGTGCCGCGTGTGCGAGGCGGGCTCGGGCCTCGTGTCTCCTGCCAGGAC  
AAGCAGAACACCGTGTGCGAGGAGTGCCCGGACGGCACGTATTCCGACGAGGCCAACACGTGGACCCGT  
GCCTGCCCTGCACCGTGTGCGAGGACACCGAGCGCCAGCTCCGCGAGTGACACCGTGGGCCGACGCCGA  
GTGCGAGGAGATCCCTGGCCGTTGGATTACACGGTCCACACCCCCAGAGGGCTCGGACAGCACAGCCCC  
AGCACCCAGGAGCCTGAGGCACCTCCAGAACAAGACCTCATAGCCAGCACGGTGGCAGGTGGTGGACCA  
CAGTGATGGGCAGCTCCCAGCCCGTGGTGAACCGAGGCCACCGACAACCTCATCCCTGTCTATTGCTC  
CATCCTGGCTGCTGTGGTTGTGGCCTTGTGGCCTACATAGCCTCAAGAGGTGGAACAGCTGCAAGCAG  
ACAAGCAAGGAGCCAACAGCCGCGCCAGTGAACCGAGCGCCCCACCAGAGGGGAGAAAACTCCACAGCG  
ACAGTGGCATCTCCGTGGACAGCCAGAGCCTGCATGACCAGAGCCCCACACGACAGACAGCCTCGGGCCA  
GGCCCTCAAGGGTGACGGAGGCCTCTACAGCAGCCTGCCCCAGCCAAGCGGGAGGAGGTGGAGAAGCTT  
CTCAACGGCTCTGCGGGGACACCTGGCGGCACCTGGCGGGCAGCTGGGCTACCAGCCCGAGCACATAG  
ACTCCTTACCCATGAGGCCTGCCCGTTCGCGCCCTGCTTGCAAGCTGGGCCACCCAGGACAGCGCCAC  
ACTGGACGCCCTCTGGCCGCCCTGCGCCGCATCCAGCGAGCCGACCTCGTGGAGAGTCTGTGCAGTGAG  
TCCACTGCCACATCCCCGGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207966 representing NM\_002507  
Red=Cloning site Green=Tags(s)

MGAGATGRAMDGPRLLLLLLLGVSLGGAKEACPTGLYTHSGECKACNLGEGVAQPCGANQTVCEPCLDS  
 VTFSDVVSATEPCKPCTECVGLQSMSAPCVEADDAVCRCAYGYQDETTGRCEACRVCEAGSGLVFCQD  
 KQNTVCEECPDGTYSDEANHVDPCLPCTVCEDETERQLRECTRWADAECEEIPGRWITRSTPPEGSSTAP  
 STQEPEAPPEQDLIASTVAGVVTTVMGSSQPVVTRGTTDNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQ  
 NKQGANSRPVNQTPPPEGEKLSHSDSGISVDSQSLHDQQPHTQTASGQALKGDGGLYSSLPPAKREEVEKL  
 LNGSAGDTRHLAGELGYQPEHIDSFTHEACPVRALLASWATQDSATLDALLAALRRIQRADLVESLCSE  
 STATSPV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002507

**ORF Size:** 1281 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.

**RefSeq:** [NM\\_002507.4](#)

**RefSeq Size:** 3386 bp

**RefSeq ORF:** 1284 bp

**Locus ID:** 4804

**UniProt ID:** [P08138](#)

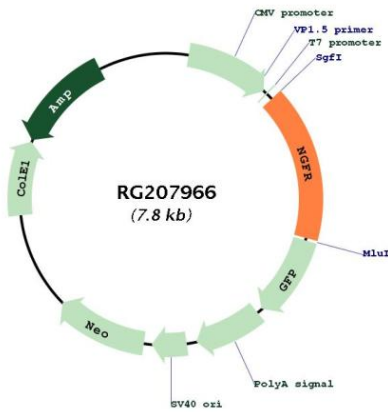
**Cytogenetics:** 17q21.33

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Neurotrophin signaling pathway

**Gene Summary:** Nerve growth factor receptor contains an extracellular domain containing four 40-amino acid repeats with 6 cysteine residues at conserved positions followed by a serine/threonine-rich region, a single transmembrane domain, and a 155-amino acid cytoplasmic domain. The cysteine-rich region contains the nerve growth factor binding domain. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG207966