

## Product datasheet for **RC207966**

### **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:	Myc-DDK
Symbol:	p75 NGF Receptor
Synonyms:	CD271; Gp80-LNGFR; p75(NTR); p75NTR; TNFRSF16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC207966 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCAGGTGCCACCGGCCGCGCCATGGACGGCCGCGCCTGCTGCTGTTGCTGCTTCTGGGGTGT  
 CCCTTGAGAGTGCCAAGGAGGCATGCCCCACAGGCCTGTACACACACAGCGGTGAGTGCTGCAAAGCCTG  
 CAACCTGGGCGAGGGTGTGGCCAGCCTTGTGGAGCCAACCAGACCGTGTGTGAGCCCTGCCTGGACAGC  
 GTGACGTTCTCCGACGTGGTGTGAGCGGACCGAGCCGTGCAAGCCGTGCACCGAGTGCCTGGGGCTCCAGA  
 GCATGTCGGCGCCATGCGTGGAGGCCGACGACGCCGTGTGCCGCTGCGCCTACGGCTACTACCAGGATGA  
 GACGACTGGGCGCTGCGAGGCGTCCGCGTGTGCGAGGCGGGCTCGGGCCTCGTGTCTCCTGCCAGGAC  
 AAGCAGAACCCGTGTGCGAGGAGTGCCCCGACGGCACGTATTCCGACGAGGCCAACCGTGGACCCGT  
 GCCTGCCCTGCACCGTGTGCGAGGACACCGAGCGCCAGTCCGCGAGTGCACACGCTGGGCCGACGCCGA  
 GTGCGAGGAGATCCCTGGCCGTTGGATTACACGGTCCACACCCAGAGGGCTCGGACAGCACAGCCCC  
 AGCACCCAGGAGCCTGAGGCACCTCCAGAACAAGACCTCATAGCCAGCACGGTGGCAGGTGTGGTAGCCA  
 CAGTGATGGGCAGCTCCAGCCCGTGGTACCCGAGGCACCCGACAACCTCATCCCTGTCTATTGCTC  
 CATCCTGGCTGCTGTGGTGTGGGTCTTGTGGCCTACATAGCCTTCAAGAGGTGGAACAGCTGCAAGCAG  
 AACAGCAAGGAGCCAACAGCCGCCAGTGAACAGAGCGCCCCACCAGAGGGAGAAAACTCCACAGCG  
 ACAGTGGCATCTCCGTGGACAGCCAGAGCCTGCATGACCAGCAGCCCCACACGCAGACAGCCTCGGGCCA  
 GGCCCTCAAGGGTACCGGAGGCTCTACAGCAGCCTGCCCCAGCAAGCGGGAGGAGGTGGAGAAGCTT  
 CTAACGGCTCTCGGGGGACACCTGGCGGCACCTGGCGGGCAGCTGGGCTACCAGCCGAGCAGACATAG  
 ACTCCTTTACCCATGAGGCCTGCCCGTTCGCGCCCTGTTGCAAGCTGGGCCACCCAGGACAGCGCCAC  
 ACTGGACGCCCTCCTGGCCGCCCTGCGCCGCATCCAGCGAGCCGACCTCGTGGAGAGTCTGTGCAGTGAG  
 TCCACTGCCACATCCCCGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC207966 protein sequence  
 Red=Cloning site Green=Tags(s)

MGAGATGRAMDGPRLLLLLLVSLGGAKEACPTGLYTHSGECCACNLGEGVAQPCGANQTVCEPCLDS  
 VTFSDVVSATEPCKPCTECVGLQSMSAPCVEADDAVRCRAYGYQDETTGRCEACRVCEAGSGLVFCQD  
 KQNTVCEECPDGTYSDEANHVDPCLPCTVCEDETERQLRECTRWADAECEEIPGRWITRSTPPEGSSTAP  
 STQEPEAPPEQDLIASTVAGVTTVMGSSQPVVTRGTTDNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQ  
 NKQGANSRPVNQTTPPEGEKLSHDSGISVDSQSLHDQPHTQTASGQALKGDGGLYSSLPPAKREEVEKL  
 LINGSAGDTWRHLAAGELGYQPEHIDSF THEACVPRALLASWATQDSATLDALLAALRRIQRADLVESLCSE  
 STATSPV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6270\\_c08.zip](https://cdn.origene.com/chromatograms/mk6270_c08.zip)

**Restriction Sites:**

Sgfl-Mlul

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.

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

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

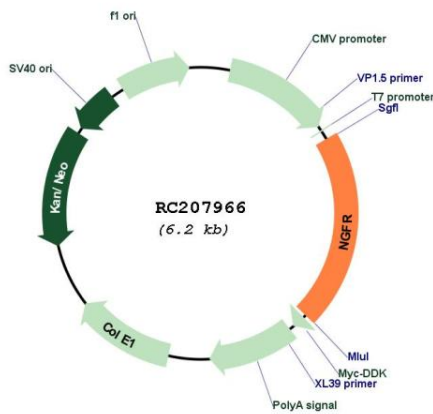
RefSeq Size: 3420 bp

RefSeq ORF: 1284 bp

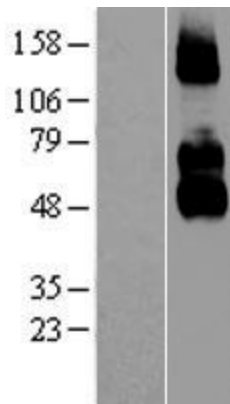
Locus ID: 4804

**UniProt ID:** [P08138](#)  
**Cytogenetics:** 17q21.33  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction, Neurotrophin signaling pathway  
**MW:** 45.2 kDa  
**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]

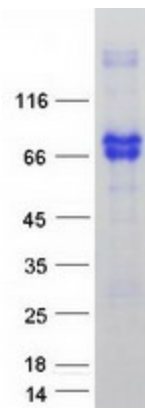
**Product images:**



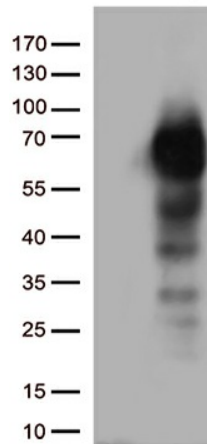
Circular map for RC207966



Western blot validation of overexpression lysate (Cat# [LY419286]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207966 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NGFR protein (Cat# [TP307966]). The protein was produced from HEK293T cells transfected with NGFR cDNA clone (Cat# RC207966) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NGFR (Cat# RC207966, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NGFR (Cat# [TA812990])(1:500).