

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCAGGTGCCACCGCCGCGCCATGGACGGCCGCGCCTGCTGCTGTTGCTGCTTCTGGGGTGT
 CCCTTGAGAGTGCCAAGGAGGCATGCCACAGGCCTGTACACACACAGCGGTGAGTGCTGCAAAGCCTG
 CAACCTGGGCGAGGGTGTGGCCAGCCTTGTGGAGCCAACAGACCGTGTGTGAGCCCTGCCTGGACAGC
 GTGACGTTCTCCGACGTGGTGTGAGCGGACCGAGCCGTGCAAGCCGTGCACCGAGTGCGTGGGGCTCCAGA
 GCATGTCGGCGCCATGCGTGGAGGCCGACGACGCCGTGTGCCGCTGCGCCTACGGCTACTACCAGGATGA
 GACGACTGGGCGCTGCGAGGCGTCCGCGTGTGCGAGGCGGGCTCGGGCCTCGTGTCTCCTGCCAGGAC
 AAGCAGAACACCGTGTGCGAGGAGTGCCCCGACGGCACGTATTCCGACGAGGCCAACACGTGGACCCGT
 GCCTGCCCTGCACCGTGTGCGAGGACACCGAGCGCCAGTCCGCGAGTGACACGCTGGGCCGACGCCGA
 GTGCGAGGAGATCCCTGGCCGTTGGATTACACGGTCCACACCCAGAGGGCTCGGACAGCACAGCCCC
 AGCACCCAGGAGCCTGAGGCACCTCCAGAACAGACCTCATAGCCAGCAGCGGTGGCAGGTGTGGTAGCA
 CAGTGATGGGCGACTCCAGCCCGTGGTACCCGAGGCACCCAGACAACCTCATCCCTGTCTATTGCTC
 CATCCTGGCTGCTGTGGTGTGGGTCTTGTGGCCTACATAGCCTTCAAGAGGTGGAACAGCTGCAAGCAG
 AACAGCAAGGAGCCAACAGCCGCCAGTGAACAGAGCGCCCCACCAGAGGGAGAAAACTCCACAGCG
 ACAGTGGCATCTCCGTGGACAGCCAGAGCCTGCATGACCAGCAGCCCCACACGCAGACAGCCTCGGGCCA
 GGCCCTCAAGGGTACGGAGGCCCTACAGCAGCCTGCCCCAGCAAGCGGGAGGAGGTGGAGAAGCTT
 CTAACGGCTCTCGGGGGACACCTGGCGGCACCTGGCGGCCGAGCTGGGCTACCAGCCGAGCACATAG
 ACTCCTTTACCCATGAGGCCTGCCCGTTCGCGCCCTGTTGCAAGCTGGGCCACCCAGGACAGCGCCAC
 ACTGGACGCCCTCCTGGCCGCCCTGCGCCGCATCCAGCGAGCCGACCTCGTGGAGAGTCTGTGCAGTGAG
 TCCACTGCCACATCCCCGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MGAGATGRAMDGPRLLLLLLVSLGGAKEACPTGLYTHSGECCACNLGEGVAQPCGANQTVCEPCLDS
 VTFSDVVSATEPCKPCTECVGLQSMSAPCVEADDAVRCRAYGYQDETTGRCEACRVCEAGSGLVFSQD
 KQNTVCEECPDGTYSDEANHVDPCLPCTVCEDTERQLRECTRWADAECEEIPGRWITRSTPPEGSSTAP
 STQEPEAPPEQDLIASTVAGVTTVMGSSQPVVTRGTTDNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQ
 NKQGANSRPVNQTTPPEGEKLSHDSGISVDSQSLHDQPHTQTASGQALKGDGGLYSSLPPAKREEVEKL
 LINGSAGDTWRHLAAGELGYQPEHIDSF THEACPVRALLASWATQDSATLDALLAALRRIQRADLVESLCS
 STATSPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6270_c08.zip

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: 3420 bp

RefSeq ORF: 1284 bp

Locus ID: 4804

UniProt ID: [P08138](#)

Cytogenetics: 17q21.33

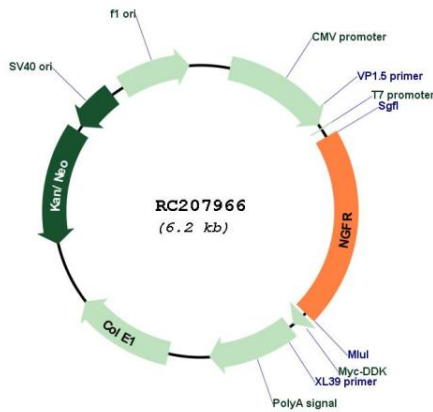
Protein Families: Druggable Genome, Transmembrane

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

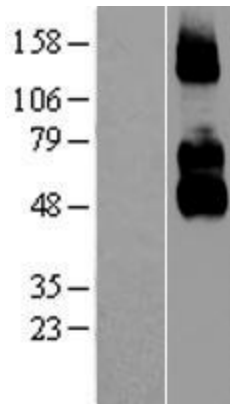
MW: 45.2 kDa

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]

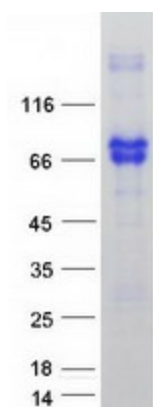
Product images:



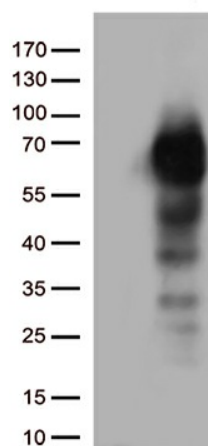
Circular map for RC207966



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).