

## Product datasheet for **SC303208**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	p75 NGF Receptor (NGFR) (NM_002507) Human Untagged Clone
Tag:	Tag Free
Symbol:	p75 NGF Receptor
Synonyms:	CD271; Gp80-LNGFR; p75(NTR); p75NTR; TNFRSF16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_002507 edited  
AGCGCGAGCCGAGCCGCGGCCAGCTCCGCGGGCAGGGGGCGCTGGAGCGCAGCGCAG  
CGCAGCCCATCAGTCCACAAAGCGGACCGAGCTGGAAGTCGAGCGCTGCCGCGGAGGC  
GGGCGATGGGGGAGGTGCCACCGCGCCGATGGACGGCCGCGCCTGCTGCTTTGC  
TGCTTCTGGGGTGTCCCTTGGAGGTGCCAAGGAGGCATGCCCCACAGGCCTGTACACAC  
ACAGCGGTGAGTGTGCAAAAGCCTGCAACCTGGGCGAGGGTGTGGCCAGCCTTGTGGAG  
CCAACCAGACCGTGTGTGAGCCCTGCCTGGACAGCGTGACGTTCTCCGACGTGGTGGAGC  
CGACCGAGCCGTGCAAGCCGTGCACCGAGTGCCTGGGGCTCCAGAGCATGTCGGCGCCAT  
GCGTGGAGGCCGACGACGCCGTGTGCCGCTGCGCCTACGGCTACTACCAGGATGAGACGA  
CTGGGCGCTGCGAGGCGTCCGCGTGTGCGAGGGGGCTCGGGCCTCGTGTCTCCTGCC  
AGGACAAGCAGAACACCGTGTGCGAGGAGTGCCCGACGCGACGATTCGACGAGGCCA  
ACCACGTGGACCCGTGCCTGCCCTGCACCGTGTGCGAGGACACCGAGCGCCAGCTCCGCG  
AGTGACACACGCTGGGCCGACGCCGAGTGCAGGAGATCCCTGGCCGTTGGATTACACGCT  
CCACACCCCCAGAGGGCTCGGACAGCACAGCCCCAGCACCCAGGAGCCTGAGGCACCTC  
CAGAACAAGACCTCATAGCCAGCACGGTGGCAGGTGTGGTACCACAGTATGGGAGCT  
CCCAGCCCGTGGTGAACCGAGGCACCCGACAACCTCATCCCTGTCTATTGCTCCATCC  
TGGCTGCTGTGGTGTGGGTCTTGTGGCCTACATAGCCTTCAAGAGGTGGAACAGCTGCA  
AGCAGAACAAGCAAGGAGCCAACAGCCGCCAGTGAACCAGACGCCCCACCAGAGGGAG  
AAAAACTCCACAGCGACAGTGGCATCTCCGTGGACAGCCAGGCCTGCATGACACGACG  
CCCACACGACAGACCTCGGGCCAGGCCCTCAAGGGTGACGGAGGCCTCTACAGCAGCC  
TGCCCCAGCCAAGCGGGAGGAGGTGGAGAAGCTTCTCAACGGCTCTGCGGGGACACCT  
GGCGGCACCTGGCGGGGAGCTGGGCTACCAGCCGAGCACATAGACTCCTTTACCCATG  
AGGCTGCCCGTTTCGCGCCCTGCTTGAAGCTGGGCCACCCAGGACAGCGCCACACTGG  
ACGCCCTCTGGCCGCCCTGCGCCGATCCAGCGAGCCGACCTCGTGGAGAGTCTGTGCA  
GTGAGTCCACTGCCACATCCCCGGTGTGAGCCCAACCGGGGAGCCCCCGCCCCCCAC  
ATTCGACAACCGATGCTCCAGCAACCCCTGTGGAGCCCGACCCCCACCTTTGGGGG  
GGCCCCGCTGCGAGAAGTGTGCTCTGGGCGAGACCTCAGAGTCCAGGCCCCAAAAC



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CACAGCCCTGTCAGTGCAGCCCGTGTGGCCCTTCACTTCTGACCACACTTCCTGTCCAG  
 AGAGAGAAGTGCCCTGCTGCCTCCCAACCCTGCCCTGCCCGTACCATCTCAGGCC  
 ACCTGCCCTTCTCCACACTGCTAGGTGGGCCAGCCACTCCCACCACAGCAGGTGTCA  
 TATATGGGGGGCAACACCAGGGATGGTACTAGGGGAAGTGACAAGGCCCCAGAGACTC  
 AGAGGGAGGAATCGAGGAACCAGAGCCATGGACTCTACTGTGAACTTGGGGAACAAGG  
 GTGGCATCCAGTGGCCTCAACCCTCCCTCAGCCCTCTTGCCCCCACCACAGCCTAAG  
 ATGAAGAGGATCGGAGGCTTGTACAGACTGGGAGGGGTTTTTGAAGCTCAGCCACCCCC  
 CTCATTTTGGATATAGGTCAAGTGCAGGCCAGGGAGAGGCCATGATTCGCCCAAAGCCAGA  
 CAGCAACGGGGAGGCCAAGTGCAGGCTGCACCCGCTTCTCTAAATGAGGGGCTCAGGT  
 TTGCTGAGGGCGAGGGGAGGGTGGCAGGTGACCTTCTGGGAAATGGCTTGAAGCCAAGT  
 CAGCTTTGCCTTCCACGCTGTCTCCAGACCCCAACCCTTCCCCACTGCCTGCCACCCG  
 TGGAGATGGGATGCTTGCTAGGGCTGGTCCATGATGGAGTCAGGTTTGGGGTTCGTGG  
 AAAGGGTGTCTCCCTCTGCCTGTACTCTCAGGCATGCCTGTGTGACATCAGTGGCA  
 TGGCTCCAGTCTGCTGCCCTCCATCCCGACATGGACCCGGAGCTAACACTGGCCCTAGA  
 ATCAGCCTAGGGGTGAGGACCAAGGACCCTCACCTTGAACACACAGACACACGCACA  
 CACACACACAGGAGGAGAAATCTCACTTTTCTCCATGAGTTTTTCTCTTGGGCTGAGAC  
 TGGATACTGCCCGGGCAGCTGCCAGAGAAGCATCGGAGGAAATTGAGGTCTGCTCGGCC  
 GTCTTCACTCGCCCCGGGTTTGGCGGGCAAGGACTGCCGACCGAGGCTGGAGCTGGCG  
 TCTGTCTTCAAGGGCTTACACGTGGAGGAATGCTCCCCATCCTCCCCTTCCCTGCAAAC  
 ATGGGGTTGGCTGGGCCAGAAGGTTGCGATGAAGAAAAGCGGGCCAGTGTGGGAATGCG  
 GCAAGAAGGAATTGACTTCGACTGTGACCTGTGGGATTTCTCCAGCTTAGACAACCC  
 TGCAAAGGACTTTTTTCTGAGCTTGGCCAGAAGGGGGCCATGAGGCCTCAGTGGACT  
 TTCCACCCCTCCCTGGCCTGTTCTGTTTTGCTGAAGTTGGAATGAGTGTGGCTCCCCT  
 CTATTTAGCATGACAAGCCCGAGGAGGCTGTGCGCTGACAACCACCGCTCCCCAGCCCA  
 GGGTTCCCCCAGCCCTGTGGAAGGACTAGGAGCACTGTAGTAAATGGCAATTCTTTGAC  
 CTCAACCTGTGATGAGGGGAGGAAACTCACCTGTGGCCCTCACCTGGGCACCTGGGGA  
 GTGGGACAGAGTCTGGGTGATTTATTTTCTCCCCAGCAGGTGGGGAGGGGGTTTGGG  
 GCTTGAAGTATGTTTTAGCATGTGTTTGGTCTGGGGCCCTTTTTACTCCCCTTGAGC  
 TGAGATGGAACCTTTTTGGCCCCGAGCTGGGGCCATGAGCTCCAGACCCCAAGCAACC  
 CTCCTATCACCTCCCCTCTGCTCCTGTGTAATCATTTCTTTGGCCCTCTGAAACTT  
 ACACACAAAACGTTAAGTGTGAACATTAATAGCAAAGAAAGAAAAAATAAAAAAAAAA  
 AAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002507 unedited  
 GTCAGCATTTGTATACGACTCATATAGGCGGCCGATAACTTCGTATAGCATAACATTATA  
 CGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGCGCGAGC  
 CGAGCCGCGGCCAGCTCCGGCGGGCAGGGGGGGCGCTGGAGCGCAGCGCAGCGCAGCCCC  
 ATCAGTCCACAAAGCGGACCGAGCTGGAAGTGCAGCGCTGCCCGGGAGGCGGGCGATGG  
 GGGCAGGTGCCACCGCCGCGCCATGGACGGGCGCGCCTGCTGCTGTTGCTGCTTCTGG  
 GGGTGTCCCTTGGAGGTGCCAAGGAGGCATGCCCCACAGGCCGTACACACACAGCGGTG  
 AGTGTGCAAAGCCTGCAACCTGGGCGAGGGTGTGGCCAGCCTTGTGGAGCCAACCAGA  
 CCGTGTGTGAGCCCTGCCTGGACAGCGTGACGTTCTCCGACGTGGTGAGCGCGACCGAGC  
 CGTGCAAGCCGTGACCCGAGTGCCTGGGGCTCCAGAGCATGTCCGGCCATGCGTGGAGG  
 CCGACGACGCCGTGTGCCGCTGCGCCTACGGCTACTACCAGGATGAGACGACTGGGCGCT  
 GCGAGGCGTGCCGCGTGTGCGAGGCGGACTCGGCCCTCGTGTCTCCTGCCAGGACAAGC  
 AGAACCCGTGTGCGAGGAGTGCCCCGACGGCACGTATTCCGACGAGGCCAACCCAGTGG  
 ACCCGTGCCTGCCCTGCACCGTGTGCGAAGACACCGAGCCAGCTCCGCGAGTGCACAC  
 GCTGGGCCCGACCCGAGTGCAGGAGATCCCCTGGCCGTTGGGATACACGGTCCCACAC  
 CCCAGAGGGGCTCGACAGCACACC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_002507

<b>Insert Size:</b>	1284 bp
<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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_002507.1</a></u> , <u><a href="#">NP_002498.1</a></u>
<b>RefSeq Size:</b>	3386 bp
<b>RefSeq ORF:</b>	1284 bp
<b>Locus ID:</b>	4804
<b>UniProt ID:</b>	<u><a href="#">P08138</a></u>
<b>Cytogenetics:</b>	17q21.33
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Neurotrophin signaling pathway
<b>Gene Summary:</b>	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]