

## Product datasheet for **RG200487**

### CNTF Receptor alpha (CNTFR) (NM\_147164) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CNTF Receptor alpha (CNTFR) (NM_147164) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNTF Receptor alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200487 representing NM_147164 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCTCCTGTCCCCTGGGCTGCTGTGCTGTGCTTGCCGCCGCCGCCGAGTTGTCTACGCCAGA  
GACACAGTCCACAGGAGGCACCCATGTGCAGTACGAGCGCTGGGCTCTGACGTGACACTGCCATGTGG  
GACAGCAAAGTGGGATGCTGCGGTGACGTGGCGGGTAAATGGGACAGACCTGGCCCCTGACCTGTCAAC  
GGCTCTCAGCTGGTGTCCATGGCCTGGAAGTGGCCACAGTGGCCTCTACGCTGCTTCCACCGTACTG  
CCTGGCACCTGCGCCACCAAGTCTGCTGCATGTGGGCTTGCCGCCGCCGGGAGCCTGTGCTCAGCTGCCG  
CTCCAACACTTACCCCAAGGGCTTCTACTGCAGCTGGCATCTGCCACCCACCTACATTCCCAACACC  
TTCAATGTGACTGTGCTGCATGGCTCCAAAATTATGGTCTGTGAGAAGGACCCAGCCCTCAAGAACCCT  
GCCACATTCGCTACATGCACCTGTTCTCCACCATCAAGTACAAGGTCTCCATAAGTGTGACGAATGCCCT  
GGGCCACAATGCCACAGCTATCACCTTTGACGAGTTCACCATTGTGAAGCCTGATCCTCCAGAAAATGTG  
GTAGCCCGGCCAGTGCCAGCAACCCTCGCCGGCTGGAGGTGACGTGGCAGACCCCTCGACCTGGCCTG  
ACCCTGAGTCTTTCTCTCAAGTCTTTCTGCGCTACCGACCCCTCATCTGGACAGTGGCAGCATGT  
GGAGCTGTCCGACGGCACAGCACACCATCACAGATGCCTACGCCGGGAAGGAGTACATTATCCAGGTG  
GCAGCCAAGGACAATGAGATTGGGACATGGAGTACTGGAGCGTAGCCGCCACGCTACGCCCTGGACTG  
AGGAACCGGACACCTCACACGGAGGCCAGGCTGCGGAGACCAGACCAGCACCACCTCCCTGGC  
ACCCACCTACCACGAAGATCTGTGACCTGGGAGCTGGGACGCGCGGGGGACCCCTCGGCACCCCTT  
TTGGTCAGCGTCCCCATCACTCTGGCCCTGGTGCCGCTGCCGCCACTGCCAGCAGTCTCTTGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200487 representing NM\_147164  
 Red=Cloning site Green=Tags(s)

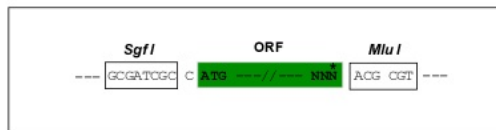
MAAPVPWACCAVLAAAAVVYAQRHSPQEAPHVQYERLGSVDVTLPCGTANWDAAVTWRVNGTDLAPDLLN  
 GSQVLVHGLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSCRNTYPKGFYCSWHLPTPTYIPNT  
 FNVTVLHGSKIMVCEKDPALKNRCHIRYMHLFSTIKYKVISVSNALGHNATAITFDEFTIVKPDPPENV  
 VARPVPSNPRRLEVTWQTPSTWPDPEFPLKFFLRYRPLILDQWQHVELSDGTAHTITDAYAGKEYIIQV  
 AAKDNEIGTWSWVAHAHATPWTEEPRLTTEAQA AETTTSTTSSLAPPPTTKICDPGELGSGGGPSAPF  
 LVSVPITLALAAAAATASLLI

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_147164

**ORF Size:** 1116 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\\_147164.3](#)

**RefSeq Size:** 2055 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 1271

**UniProt ID:** [P26992](#)

**Cytogenetics:** 9p13.3

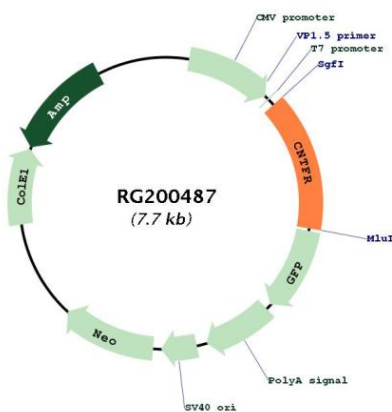
**Domains:** ig, IGc2, IG, FN3

**Protein Families:** Druggable Genome

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

**Gene Summary:** This gene encodes a member of the type 1 cytokine receptor family. The encoded protein is the ligand-specific component of a tripartite receptor for ciliary neurotrophic factor, which plays a critical role in neuronal cell survival, differentiation and gene expression. Binding of ciliary neurotrophic factor to the encoded protein recruits the transmembrane components of the receptor, gp130 and leukemia inhibitory factor receptor, facilitating signal transduction. Single nucleotide polymorphisms in this gene may be associated with variations in muscle strength, as well as early onset of eating disorders. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2011]

**Product images:**



Circular map for RG200487