

Product datasheet for **RG233904**

CNTF Receptor alpha (CNTFR) (NM_001207011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNTF Receptor alpha (CNTFR) (NM_001207011) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNTFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233904 representing NM_001207011 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTCCTGTCCCGTGGCCTGCTGTGCTGTGCTTGCCGCCGCCGCCGAGTTGTCTACGCCAGA
GACACAGTCCACAGGAGGCACCCATGTGCAGTACGAGCGCTGGGCTCTGACGTGACACTGCCATGTGG
GACAGCAAAGTGGGATGCTGCGGTGACGTGGCGGTAATGGGACAGACCTGGCCCTGACCTGTCAAC
GGCTCTCAGCTGGTGTCCATGGCCTGGAAGTGGCCACAGTGGCCTCTACGCTGCTCCACCGTGTG
CCTGGCACCTGCGCCACCAAGTCTGTGCATGTGGCTTGCCGCCCGGGAGCCTGTGCTCAGCTGCCG
CTCCAACACTTACCCCAAGGGCTTCTACTGCAGCTGGCATCTGCCACCCACCTACATTCCCAACACC
TTCAATGTGACTGTGCTGCATGGCTCCAAAATTATGGTCTGTGAGAAGGACCCAGCCCTCAAGAACCCT
GCCACATTCGCTACATGCACCTGTTCTCCACCATCAAGTACAAGGTCTCCATAAGTGTGACGAATGCCCT
GGGCCACAATGCCACAGCTATCACCTTTGACGAGTTCACCATTGTGAAGCCTGATCCTCCAGAAAATGTG
GTAGCCCGGCCAGTGCCAGCAACCCTCGCCGGCTGGAGGTGACGTGGCAGACCCCTCGACCTGGCCTG
ACCCTGAGTCTTTCTCTCAAGTCTTTCTGCGCTACCGACCCCTCATCTGGACCAGTGGCAGCATGT
GGAGCTGTCCGACGGCACAGCACACCATCACAGATGCCTACGCCGGAAGGAGTACATTATCCAGGTG
GCAGCCAAGGACAATGAGATTGGGACATGGAGTACTGGAGCGTAGCCGCCACGCTACGCCCTGGACTG
AGGAACCGGACACCTCACACGGAGGCCAGGCTGCGGAGACCAGACCAGCACCACCTCCCTGGC
ACCCACCTACCACGAAGATCTGTGACCTGGGAGCTGGGAGCGGGGGGACCCCTCGGCACCCCTT
TTGGTCAGCGTCCCATCACTCTGGCCCTGGTGCCGCTGCCGCACTGCCAGCAGTCTCTTGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233904 representing NM_001207011
Red=Cloning site Green=Tags(s)

MAAPVPWACCAVLAAAAVVYAQRHSPQEAPHVQYERLGSDVTLPCGTANWDAAVTWRVNGDLAPDLLN
 GSQVLVHGLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSCRNTYPKGFYCSWHLPTPTYIPNT
 FNVTVLHGSKIMVCEKDPALKNRCHIRYMHLFSTIKYKVISVSNALGHNATAITFDEFTIVKPDPPENV
 VARPVPSNPRRLEVTWQTPSTWPDPEFPLKFFLRYRPLILDQWQHVELSDGTAHTITDAYAGKEYIIQV
 AAKDNEIGTWSWVAHAHATPWTEPRHLTTEAQA AETTTSTTSSLAPPPTTKICDPGELGSGGGPSAPF
 LVSVPITLALAAAAATASLLI

TRTRPLE - GFP Tag - V

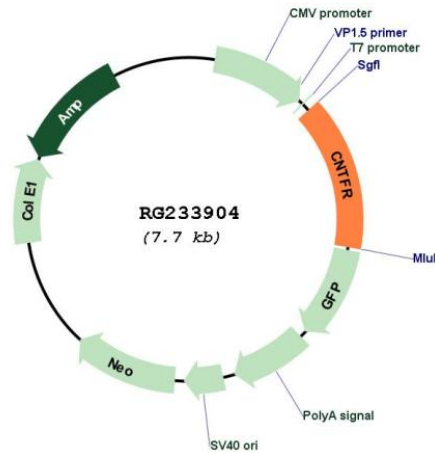
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001207011

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:	<ol style="list-style-type: none">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_001207011.1 , NP_001193940.1
RefSeq Size:	1946 bp
RefSeq ORF:	1119 bp
Locus ID:	1271
UniProt ID:	P26992
Cytogenetics:	9p13.3
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]