

## Product datasheet for **MR205731**

### **Cntfr (NM\_016673) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cntfr (NM\_016673) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cntfr  
**Synonyms:** Cntf; Cntfralpha  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR205731 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCTTCTGTCCCATGGGCCTGCTGTGCTGTGCTTGCCGCTGCCGCCGCCGCTGTCTACACGCAGA  
AACACAGTCCACAGGAGGCACCCACGTGCAGTATGAGCGTCTGGGCGCAGATGTGACGCTGCCGTGTGG  
GACAGCGAGCTGGGACGCAGCTGTGACATGGAGGGTAAACGGGACAGATCTGGCCCTGACCTGCTCAAC  
GGCTCTCAGCTGATACTGCGAAGCTTAGAACTGGGCCACAGTGGCTATACGCCTGTTCCACCGTGACT  
CCTGGCACCTGCGCCACCAAGTCTTCTACATGTGGGTTTGCCGCCGGGAGCCTGTGCTCAGCTGCCG  
CTCCAACACTTACCCCAAGGGCTTCTACTGCAGCTGGCACCTGCCACCCCCACCTACATCCCAATACC  
TTCAATGTGACTGTGCTGCATGGCTCCTCAAAATTATGGTCTGTGAGAAGGACCCAGCCCTCAAGAACCCT  
GCCACATTCGGTACATGCACCTGTTCTCAACCATCAAGTACAAGGTCTCCATAAGTGTGACGAACGCCTT  
GGGTACAACTACGGCCATCACCTTTGACGAATTCACCATTGTGAAGCCTGATCCTCCAGAAAACGTG  
GTGGCCCGGCCAGTGCCAGCAACCCCGTCCGCTGGAGGTGACATGGCAGACACCCTCACTTGGCCCG  
ACCCTGAATCCTTTCCTCTCAAGTTCTTCTGCGCTACCGCCTCTCATCTGGACCAATGGCAGCATGT  
GGAGCTCTCGGATGGCACAGCACACCATCACAGATGCCTACGCAGGGAAGGAATACATCATCCAGGTG  
GCAGCCAAGGACAATGAGATTGGGACATGGAGTGACTGGAGCGTGGCTGCTCACGCCACACCCTGGACTG  
AGGAACCTCGGCATCTCAACAGAAAGCCAGGCCCGAGACCAGCACCAGCACCAGCTCATTGGC  
ACCCCAACCCACCAAGATCTGTGACCTGGGAGCTTGGCAGCGGGAGGACCCTCCATACTCTTC  
TTGACCAGTGTCCAGTCACTCTGGTCTGGTCCGCTGCTGCCACAGCCAACAATCTCTCTGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205731 protein sequence  
Red=Cloning site Green=Tags(s)

MAASVPWACCAVLAAAAAVYTQKHSPQEAPHVQYERLGADVTLPCGTASWDAAVTWRVNGTDLAPDLLN  
 GSQILILRSLELGHSGLYACFHRDSWHLRHQVLLHVGLPPREPVLSCRNTYPKGFYCSWHLPTPTYIPNT  
 FNVTVLHGSKIMVCEKDPALKNRCHIRYMHLFSTIKYKVISVSNALGHNTTAITFDEFTIVKPDPPENV  
 VARPVPSNPRRLEVTWQTPSTWPDPEFPLKFFLRYRPLILDQWQHVELSDGTAHTITDAYAGKEYIIQV  
 AAKDNEIGTWSWVAHAHATPWTEEPRLTTEAQAPETTTSTTSSLAPPPTTKICDPGELGSGGGPSILF  
 LTVSVPVTLVLAATAANLLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016673

**ORF Size:** 1119 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\\_016673.2](#), [NP\\_057882.2](#)

**RefSeq Size:** 2000 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 12804

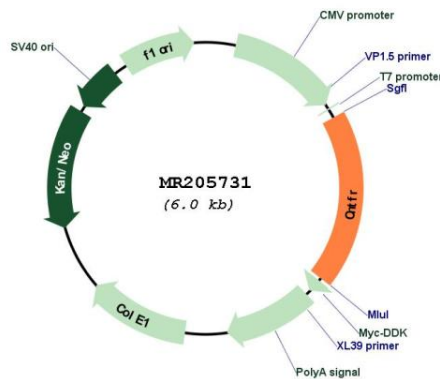
**UniProt ID:** [O88507](#)

**Cytogenetics:** 4 21.81 cM

**MW:** 40.8 kDa

**Gene Summary:** This gene encodes the alpha subunit of the ciliary neurotrophic factor (CNTF) receptor that triggers the assembly of a trimolecular complex upon binding to CNTF, and initiate a downstream signaling process. The encoded preproprotein undergoes proteolytic processing to generate a glycosylphosphatidylinositol-linked cell surface protein. Mice lacking the encoded protein die shortly after birth and exhibit a reduction of motoneuron number at birth. The transgenic disruption of this gene specifically in the skeletal muscle followed by a peripheral nerve lesion impairs motor neuron axonal regeneration across the lesion site. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2015]

### Product images:



Circular map for MR205731