

## Product datasheet for **RG205040**

### Chymotrypsin (CTRC) (NM\_007272) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chymotrypsin (CTRC) (NM_007272) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chymotrypsin
Synonyms:	CLCR; ELA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205040 representing NM_007272 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGGCATCACTGTCCTCGCTGCGCTCTTGGCCTGTGCCTCCAGCTGTGGGGTGCCAGCTTCCCGC  
CCAACCTATCCGCCGAGTGGTGGGAGGAGAGGATGCCCGGCCCCACAGCTGGCCCTGGCAGATCTCCCT  
CCAGTACCTCAAGAACGACACGTGGAGGCATACGTGTGGCGGGACTTTGATTGCTAGCAACTTCGTCCTC  
ACTGCCGCCCACTGCATCAGCAACACCCGGACCTACCGTGTGGCCGTGGGAAAGAACAACCTGGAGGTGG  
AAGACGAAGAAGGATCCCTGTTTGGGTGTGGACACCATCCACGTCCACAAGAGATGGAATGCCCTCCT  
GTTGCGCAATGATATTGCCCTCATCAAGCTTGAGAGCATGTGGAGCTGAGTGACACCATCCAGGTGGCC  
TGCTGCCAGAGAAGGACTCCCTGCTCCCCAAGGACTACCCCTGCTATGTACCGGCTGGGGCCGCCTCT  
GGACCAACGGCCCCATTGCTGATAAGCTGCAGCAGGGCCTGCAGCCCGTGGTGGATCACGCCACGTGCTC  
CAGGATTGACTGGTGGGGCTTCAGGGTGAAGAAAACCATGGTGTGCGCTGGGGCGATGGCGTCACTCA  
GCCTGCAATGGGACTCCGGTGGCCCACTGAACTGCCAGTTGGAGAACGGTTCCTGGGAGGTGTTTGGA  
TCGTACGCTTTGGCTCCCGCGGGGCTGCAACACCCGCAAGAAGCCGGTAGTCTACACCCGGGTGTCGC  
CTACATCGACTGGATCAACGAGAAAAATGCAGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG205040 representing NM\_007272  
 Red=Cloning site Green=Tags(s)

MLGITVLAALLACASSCGVPSFPPNLSARVVGGEDARPHSWPWQISLQYLKNDTWRHTCGGTLIASNFVL  
 TAAHCISNTRTYRVAVGKNNLEVEDEEGLFVGVDTIHVHKRWALLLRNDIALIKLAEHVELSDTIQVA  
 CLPEKDSLLPKDYPCYVTGWGRLWTNGPIADKLQQLQPVVDHATCSRIDWWGFRVKKTMVCAGGDGVIS  
 ACNGDSGGPLNCQLENGSWEVFGIVSFGSRRGCNTRKKPVVYTRVSAYIDWINEKMQL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007272

**ORF Size:** 804 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\\_007272.3](#)

**RefSeq Size:** 917 bp

**RefSeq ORF:** 807 bp

**Locus ID:** 11330

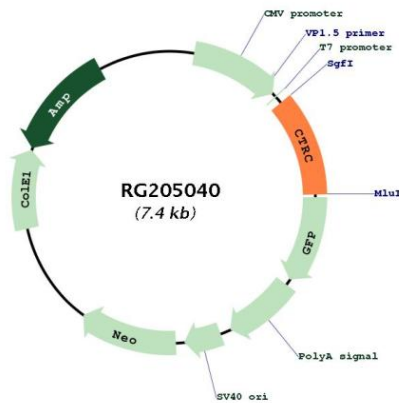
**UniProt ID:** [Q99895](#)

**Cytogenetics:** 1p36.21

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** This gene encodes a member of the peptidase S1 family. The encoded protein is a serum calcium-decreasing factor that has chymotrypsin-like protease activity. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG205040