

## Product datasheet for **MG224928**

### Cr2 (NM\_007758) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cr2 (NM_007758) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cr2
Synonyms:	C3DR; CD21; CD35; Cr-1; Cr-2; Cr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224928 representing NM_007758 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGATCCTTGGGTTTCGCTCTGGGTTTTCTTCACTCTCATCACTCCAGGAGTTCCTGAGATTTCTGTG  
ACCCTCCTCTGAAGTCAAAAATGCTCGGAAACCCATTATTCTCTTCCCATAGTTCCTGGAACTGTTCT  
GAGGTACACTTGTTCACCTAGCTACCGCCTCATTGGAGAAAAGGCTATCTTTGTATAAGTGAAAATCAA  
GTGCATGCCACCTGGGATAAAGCTCCTCTATATGTGAATCTGTGAATAAAACCATTTCCTGCTCAGATC  
CCATAGTACCAGGGGATTCATGAATAAAGGATCTAAGGCACCATTCAGACATGGTGATTCTGTGACATT  
TACCTGTAAGCCAACTTACCATGAAAGGAAGCAAACTGTCTGGTGCCAGGCAATGAAATGTGGGGA  
CCAACAGCTCTGCCAGTCTGTGAGAGTGATTTCCCTCTGGAGTGCCCATCACTTCCAACGATTTCATAATG  
GACACCACACAGGACAGCATGTTGACCAGTTTGTTCGGGGTGTCTGTGACATACAGTTGTGAACCTGG  
CTATTTGCTCACTGGAAAAAGACAATTAAGTGCTTATCTTCAGGAGACTGGGATGGTGTGATCCCGACA  
TGCAAAGAGGCCAGTGTGAACATCCAGGAAAGTTTCCAATGGGAGGTAAAGGAACCTCTGAGCCTTC  
AGGTTGGCACAACCTGTGACTTCTCCTGTAATGAAGGGTACCAATTACAAGGACAACCTCTAGTCAGTG  
TGTAATTTGTTGAACAGAAAAGCCATCTGGACTAAGAAGCCAGTATGTAAGAAAATCTCTGCCACCACT  
CCACCTGTTTCGTAATGGAAGTCATACAGGCAGCTTTTCAGAAAATGTACCATATGGAAGCACAGTTACCT  
ACACCTGTGACCCAAGCCAGAGAAAAGGGTGAGCTTCACTCTTATTGGAGAGAAGACTATCAATTGTAC  
TACTGGTAGTCAGAAGACTGGGATCTGGAGTGGCCCTGCTCCATATTGTGTACTTTCAACTTCTGCAGTT  
CTGTGTTTACAACCGAAGATCAAAGAGGGCAAAATATTATCTATTTTGAAGATAGTTATTCATATAATG  
ACACTGTGGCATTCTTGTGAACCTGGCTTACCTTGAAGGGCAACAGGAGCATTTCGATGCAATGCTCA  
TGGCAGATGGGAGCCACCGTACCAGTGTGTGAAAAGGATGTCAGGCTCCTCCTAAAATATCAATGGG  
CAAAAAGAAGATAGTTACTTGCTCAACTTTGACCCTGGTACATCCATAAGATATAGCTGTGACCCTGGCT  
ATTTACTGGTGGGAGAGGACACTATACATTGCACCCTGAGGGGAAGTGGACACCCATTACTCCCCAGTG  
CACAGTTGCAGAGTGAAGCCAGTAGGACCACATCTCTTAAGAGGCCTCAGAATCAGTTTATTAGGACA



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GCTGTTAATTCTTCTGTGATGAAGGGTCCAGTTAAGTGAGAGTGCTTATCAACTGTGTCAAGGTACAA  
 TTCCTTGGTTTATAGAAATCCGTCTTTGTAAGAAATCACCTGCCACCACCTCCTGTTATACACACGG  
 GACACATACATGGAGTTCCTCAGAAGATGTCCCATATGGAAGTGTGGTCACATACATGTGCTATCCTGGG  
 CCAGAGGAAGGCGTAAAATCAAACCTATCGGGGAGCAAACCATCCACTGTACAAGTGACAGCAGAGGAA  
 GAGGCTCCTGGAGTAGCCCTGCTCCTCTCTGTAACCTTCCCTCCCAGCTGTCCAGTGCACAGACGTTCA  
 TGTTGAAAATGGAGTCAAGTCACTGACAATAAAGCCCCATATTCTACAATGATAGTGTGATGTTCAAG  
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 AAAAACCACTTTGTAAGAAAGAAGGATGTGAGCCTATGAGAGTACATGGCCTTCCAGATGATTCACATAT  
 AAAACTAGTGAAGAAGCTGTCAAATGGGTACCAGTTGACTGGATATACTTATGAGAAGTGTCAAAT  
 GCTGAGAATGGGACTTGGTTTAAAAAGATTGAAGTTTGTACAGTTATTCTCTGTCAACCTCCACCAAAAA  
 TTGCAAAATGGTGGTCACACAGGCATGATGGCAAAGCACTTCTATATGGAATGAAGTTTCTTATGAATG  
 TGATGAAGGGTCTATCTTTGGGAGAGAAAAGTTTGCAGTGCCTAAATGATTCTAAAGGTCATGGCTCT  
 TGGAGTGGACCTCCACCACAATGCTTACAATCTTCTCCTAACTCATTGCCCGATCCAGAAGTCAAAC  
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 ACTTGTATCAGAAAGGCTTCTTTAGGGTGTGAGTCTCCATCCACAATCCCAATGGGAATCATACTGGTG  
 GGAGTATAGTCCGATTTCCCTGGAATGTCAGTCATGTACAGTTGCTACCAAGGCTTCTTATGGCTGG  
 AGAGGCACGTCTTATCTGTACTCATGAGGGTACCTGGAGTCAACCTCCCTTTTTGCAAAGAGGTAAC  
 TGTAGCTTCCCTGAAGATACAAATGGAATCCAGAAGGGATTTCAACCTGGGAAAACCTATCGATTTGGG  
 CTACTGTGACTCTGGAATGTGAGGATGGGTATACCTTGGAGGGAAGTCCCAGAGCCAGTCCAGGATGA  
 CAGCCAATGGAACCTCCCTGGCTCTTTGCAAAATACCGGTCACTATTCTCTTATTTGTGGTATTTCT  
 GTGGGCTCAGCACTTATCATTTTGTGAGTGTGCGCTTCTGTATGATATTAACACAGAGAAAGCAATT  
 ATTATACAAAGACAAGACCCAAAGAAGGAGCTTTCATTTAGAAACACGAGAAGTATATTCTATTGATCC  
 ATATAACCCAGCAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224928 representing NM\_007758  
 Red=Cloning site Green=Tags(s)

MGSLGSLWVFFTLITPGVLEISCDPPPEVKNARKPYYSPLIVPGTVLRYTCSPSYRLIGEKAIFCISENQ  
 VHATWDKAPPICESVNKTISSCDPIVPGGFMNKGSKAPFRHGDSVTFCKANFTMKGSKTVWCQANEMWG  
 PTALPVCESDFPLECPSLPTIHNGHHTGQHVDFVAGLSVTYSCEPGYLLTGKKTIKCLSSGDWDGVIPT  
 CKEAQCEHPGKFPNGQVKEPLSLQVGTYYFSCNEGYQLQGQPSSQCVIVEQKAIWTKKPVCKEILCPPP  
 PPVRNGSHTGSFSENVPGSTVYTYCDPSPEKGVSTFLIGEKTINCTTGSQKTIWSPAPYCVLSTSAV  
 LCLQPKIKRGQILSILKDSYSYNDTVAFSCEPGFTLKGNSIRCNAGHTWEPPVPVCEKGCQAPPKIING  
 QKEDSYLLNFDPGTSIRYSCDPGYLLVGEDTIHCTPEGKWTPITPQCTVAECKPVGPHLFRPQNQFIRT  
 AVNSSCDEGFQLESAYQLCQGTIPWFIEIRLCKEITCPPPPVIHNGHTWSSSEDPYGTVVYMYCYPG  
 PEEGVKFKLIGEQTIHCTSDSRGRGSWSSPAPLCKLSLPAVQCTDVHVENGVKLTDNKAPYFYNDVSMFK  
 CDDGYILSGSSQIRCKANNTWDEKPLCKKEGCEPMRVHGLPDDSHIKLVKRTCQNGYQLTGTYEKCQN  
 AENGTWFKKIEVCTVILCQPPPKIANGGHTGMMAKHFLYNEVSYECDEGFYLLGEKSLQCVNDSKGHGS  
 WSGPPPQCLQSSPLTHCPDPEVKHGYKLNKTHSAF SHNDIVHFVNCQGFIMNGSHLIRCHTNTWLPVGP  
 TCIRKASLGCQPSTIPNGNHTGGSIARFPPGMSVMYSCYQGFLMAGEARLICTHEGTWSQPPPFCKEVN  
 CSFPEDTNGIQKGFQPGKTYRFGATVTLCEEDGYTLEGGSPQSQCDQDSQWNPPLALCKYRSTIPLICGIS  
 VGSALIIILMSVGFCEMILKHRESNYTKTRPKEGALHLETREVYSIDPYNPAS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_007758.3](#)

**RefSeq Size:** 6207 bp

**RefSeq ORF:** 3099 bp

**Locus ID:** 12902

**Cytogenetics:** 1 98.44 cM