

Product datasheet for **RG239168**

Calpastatin (CAST) (NM_001284213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calpastatin (CAST) (NM_001284213) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calpastatin
Synonyms:	BS-17; PLACK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG239168 representing NM_001284213.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAATCCACAGAAAACCAAGGCTGTAAAAACAGAACCTGAGAAGAAGTCACAGTCAACCAAGCTGTCT
GTGGTTTCATGAGAAAAATCCCAAGAAGGAAAGCCAAAAGAACACACAGAGCCAAAAAGCCTACCCAAG
CAGGCATCAGATACAGGAAGTAACGATGCTCACAATAAAAAAGCAGTTTCCAGATCAGCTGAACAGCAG
CCATCAGAGAAATCAACAGAACCAAAGTCAGGCATGGATGCTGCTTTGGATGACTTAATAGATACTTTA
GGAGGACCTGAAGAACTGAAGAAGAAAAATAACCGTATACTGGACCAGAAGTTTCAGATCCAATGAGT
TCCACCTACATAGAGGAATTGGGTAAAAGAGAAGTCACAATTCCTCCAAAATATAGGGAATATTGGCT
AAAAAGGAAGGGATCACAGGGCCTCCTGCAGACTCTTCGAAACCCATAGGGCCAGATGATGCTATAGAC
GCCTTGTCTGACTTACCTGTGGGTGCCTACAGCTGCTGAAAGAAAACTGAAAAAGAGGAATCT
ACAGAAGTTTTAAAGCTCAGTCAGCAGGGACAGTCAGAAGTCTGCTCCACCCCAAGAGAAGAAAAAGA
AAGGTGGAGAAGGATACAATGAGTGATCAAGCACTCGAGGCTCTGTCGGCTTCACTGGGCACCCGGCAA
GCAGAACCTGAGCTCGACCTCCGCTCAATTAAGGAAGTCGATGAGGCAAAAGCTAAAGAAGAAAACTA
GAGAAGTGTGGTGAAGATGATGAAACAATCCCATCTGAGTACAGATTAACCAGCCACGGATAAAGAT
GGAAAACCACTATTGCCAGAGCCTGAAGAAAAACCAAGCCTCGGAGTGAATCAGAACTCATTGATGAA
CTTTCAGAAGATTTTGACCGGTCTGAATGTAAAGAGAAACCATCTAAGCCAACCTGAAAAGACAGAAGAA
TCTAAGGCCGCTGCTCCAGCTCCTGTGTCGGAGGCTGTGTGTCGGACCTCCATGTGTAGTATACAGTCA
GCACCCCTGAGCCGGCTACCTTGAAGGGCACAGTGCCAGATGATGCTGTAGAAGCCTTGGCTGATAGC
CTGGGGAAAAAGGAAGCAGATCCAGAAGATGAAAAACCTGTGATGGATAAAGTCAAGGAGAAGGCCAAA
GAAGAAGACCGTGAAGAGCTTGGTGAAGAAAGAAACAATTCCTCTGATTATAGATTAGAAGAGGTC
AAGGATAAAGATGGAAGGCCACTCTGCCAAAAGAGTCTAAGGAACAGTTCACCCATGAGTGAAGAC
TTCTTCTGGATGCTTTGTCTGAGGACTTCTCTGGTCCACAAAATGCTTCATCTCTTAAATTTGAAGAT
GCTAAACTTGCTGCTGCCATCTCTGAAGTGGTTTCCAAACCCAGCTTCAACGACCCAGCTGGAGCC
CCACCCCGTGATACCTCGCAGAGTGACAAAGACCTCGATGATGCCTTGGATAAACTCTCTGACAGTCTA
GGACAAAGGCAGCCTGACCCAGATGAGAACAACCAATGGAAGATAAAGTAAAGGAAAAAGCTAAAGCT
GAACATAGAGACAAGCTTGGAGAAAGAGATGACACTATCCACCTGAATACAGACATCTCCTGGATGAT
AATGGACAGGACAACCAAGTGAAGCCACCTACAAAGAAATCAGAGGATTCAAAGAAACCTGCAGATGAC
CAAGACCCATTGATGCTCTCTCAGGAGATCTGGACAGCTGTCCCTCCACTACAGAAACCTCACAGAAC
ACAGCAAAGGATAAAGTGAAGAAGGCTGCTTCCAGCTCCAAGCACCTAAGAATGGAGGTAAAGCGAAG
GATTCAGCAAAGACAACAGAGGAAACTTCCAAGCCAAAAGATGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG239168
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MNPETKAVKTEPEKKSQSTKLSVVHEKKSQEGPKHEHTEPKSLPKQASDTGSNDAHNKKAVSRSAEQQ
PSEKSTEPKSGMDAALDDLIDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKREVTIPPKYRELLA
KKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKEKEESTEVLKAQSAGTVRSAAPPQEKKR
KVEKDTMSDQALEALSASLGRQAPELDRSIVKEVDEAKAKEEKLEKCGEDDETIPSEYRLKPADTKD
GKPLLPEPEEKPKPRSESELIDELSEDFDRSECKEKPTEKTEESKAAAPAPVSEAVCRTSMCSIQS
APPEPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPDYRLEEV
KDKDGGKPLLKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEAKLAAAISEVVSQTPASTTQAGA
PPRDTQSQDKDLDDALDKLSDSLGQRQDPDENKPMEDKVKEKAKAEHRDKLGERDDTIPPEYRHLLDD
NGQDKPVKPPTKKSEDSKPPADDQDPIDALSGDLSDSCPSTTETSQNTAKDKCKKAASSSKAPKNGGKAK
DSAKTTEETSKPKDD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001284213

ORF Size: 1908 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).

RefSeq: [NM_001284213.3](#)

RefSeq Size: 4137 bp

RefSeq ORF: 1911 bp

Locus ID: 831

Cytogenetics: 5q15

MW: 69.5 kDa

