

Product datasheet for **RG208495**

CASC3 (NM_007359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASC3 (NM_007359) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CASC3
Synonyms:	BTZ; MLN51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208495 representing NM_007359
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGACCGCGCGCGCAGCGCCTTCGCAAGACACCGAGGACGAGGAATCTGGTGCTTCGGGCTCCG
 ACAGCGCGGCTCCCGTTGCGGGGAGGCGGGAGCTGCAGCGGTAGCGCCGGAGGCGGCGCAGCGGCTC
 TCTGCCTTCACAGCGCGAGGCCGAACCGGGCCCTTCATCTGCGCGGGTGAGAGCGGGGCGCCAAG
 AGTGCTGAGGAGTCGGAGTGTGAGAGTGAAGATGGCATTGAAGGTGATGCTGTTCTCTCGGATTATGAAA
 GTGCAGAAGACTCGAAGGTGAAGAAGTGAATACAGTGAAGAGGAAAACCTCAAAGTGGAGCTGAAATC
 AGAAGCTAATGATGCTGTTAATTCTTCAACAAAAGAAGAGAAGGGAGAAGAAAAGCTGACACAAAAGC
 ACTGTGACTGGAGAGAGGCAAAGTGGGGACGGACAGGAGACACAGAGCCTGTGGAGAACAAGTGGGTA
 AAAAGGGCCCTAAGCATTGGATGATGATGAAGATCGAAGAATCCAGCATAACATACCTCGAAAAGGGCT
 CTTCTTTGAGCATGATCTTCGAGGGCAAACCTCAGGAGGAGGAAGTCAGACCAAGGGCGTCAGCGAAA
 CTATGGAAGGATGAGGGTCGCTGGGAGCATGACAAGTTCCGGGAAGATGAGCAGGCCCAAAGTCCCGAC
 AGGAGCTCATTGCTCTTTATGGTTATGACATTCGCTCAGCTCATAATCCTGATGACATCAAACCTCGAAG
 AATCCGAAAACCCGATATGGGAGTCTCCACAAGAGATCCAACTGGAACGGTGAGCGGCTAAACAAG
 TCTCATCGCCACCAGGGTCTTGGGGCACCCCTACCACCAAGGACATTTATTAACAGGAATGCTGCAGGTA
 CCGGCCGTATGTCTGCACCCAGGAATTATTCTCGATCTGGGGCTTCAAGGAAGGTGCTGCTGGTTTTAG
 GCCTGTGGAAGCTGGTGGCAGCATGGTGGCCGGTCTGGTGAGACTGTTAAGCATGAGATTAGTTACCGG
 TCACGGCGCCTAGAGCAGACTTCTGTGAGGGATCCATCTCCAGAAGCAGATGCTCCAGTGCCTTGGCAGTC
 CTGAGAAGGAAGAGGCAGCCTCAGAGCCACCGCTGCTGCTCCTGATGCTGCACCACCCCTGATAG
 GCCATTGAGAAGAAATCCTATTCCCGGGCAAGAAGAAGTCAAGCAAAAGTTGGAGATGCAGTCAAGCTT
 GCAGAGGAGGTGCCCTCCTCCTGAAGGACTGATTCCAGCACCTCCAGTCCCAGAAACCCCAACTC
 CACCTACTAAGACTGGGACCTGGGAAGTCCGGTGGATTCTAGTACAAGTGGACTTGAGCAAGATGTGGC
 ACAACTAAATATAGCAGAACAGAATTGGAGTCCGGGGCAGCCTTCTTCTGCAACCACGGGAACCTCGA
 GGTATGCCCAACCATATACACATGGGAGCAGGACCTCCACCTCAGTTAACCAGGATGGAAGAAATGGGTG
 TCCAGGGTGGTCGAGCCAAACGCTATTCATCCCAGCGGCAAGACCTGTGCCAGAGCCCCCGCCCTCC
 AGTGCATATCAGTATCATGGAGGACATTACTATGATCCACTGCAGTTCAGGGACCAATCTATACCCAT
 GGTGACAGCCCTGCCCGCTGCCTCCACAGGGCATGCTTGTGCAGCCAGGAATGAACCTTCCCCACCCAG
 GTTACATCCCCACCAGACACCAGCTCCTCTGCCAATCCAGGCCTCTATCCCCACCAGTGTCCATGTC
 TCCAGGACAGCCACCACCTCAGCAGTTGCTTGCTCCTACTTACTTTTCTGCTCCAGGCGTCATGAACTTT
 GGTAATCCAGTTACCCTTATGCTCCAGGGGCACTGCCTCCCCACCACCGCCTCATCTGTATCCTAATA
 CACAGGCCCATCACAGGTATATGGAGGAGTGACCTACTATAACCCCGCCAGCAGCAGGTGCAGCCAAA
 GCCCTCCCCACCCGGAGGACTCCCCAGCCAGTCACCATCAAGCCCCCTCCACCTGAGGTTGTAAGCAGG
 GGTCCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208495 representing NM_007359
 Red=Cloning site Green=Tags(s)

MADRRRQRASQDTEDEESGASGSDSGGSPLRGGGSCSGSAGGGGSGSLPSQRRGTGALHLRRVESGGAK
 SAESECESEDGIEGDAVLSDYESAEDSEGEYSEEENSKVELKSEANDAVNSSTKEEKGEKPDTKS
 TVTGERQSGDGGQESTEPVENKVGKKGPKHLDDDEDKRNPAIYIPRKGLFFEHLRGTQEEEVPRKGRQRK
 LWKDEGRWEHDKFREDEQAPKSRQELIALYGYDIRSAHNPDDIKPRRIRKPRYGSPPQRDPNNGERLNK
 SHRHQGLGGTLPRTFINRNAAGTGRMSAPRNYRSRSGGFKRAGFRPVEAGGQHGGRSGETVKHEISYR
 SRRLEQTSVRDPSPEADAPVLGSPEKEEAASEPPAAAPDAAPPPDRPIEKKSYSRARTRTKVGDVAVL
 AEEVPPPEGLIPAPPVETPTPTTKTGTWEAPVDSSTSGLEQDVAQLNIAEQNWSPGQPSFLQPREL
 GMPNHIHMAGPPPQFNMEEMGVQGGRAKRYSSQRQRPVPEPPAPPVHISIMEGHYYDPLQFQGPYTH
 GDSPAPLPPQGMVLVQGMNLPHPGLHPHQTPAPLPNPLYPPVSMSPGQPPPQQLLAPTYFSAPGMNF
 GNPSYPYAPGALPPPPPHLYPNTQAPSQVYGGVTYYNPAQQQVQPKPSPPRTPQPVTIKPPPEVVSR
 GSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007359

ORF Size: 2109 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_007359.5](#)

RefSeq Size: 4198 bp

RefSeq ORF: 2112 bp

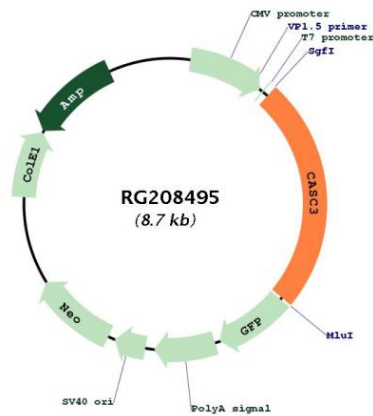
Locus ID: 22794

UniProt ID: [O15234](#)

Cytogenetics: 17q21.1

Gene Summary: The product of this gene is a core component of the exon junction complex (EJC), a protein complex that is deposited on spliced mRNAs at exon-exon junctions and functions in nonsense-mediated mRNA decay (NMD). The encoded protein binds RNA and interacts with two other EJC core components. It is predominantly located in the cytoplasm, but shuttles into the nucleus where it localizes to nuclear speckles. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208495