OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC115559

CASC3 (NM_007359) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASC3 (NM_007359) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASC3
Synonyms:	BTZ; MLN51
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC115559 sequence for NM_007359 edited (data generated by NextGen Sequencing)

ATGGCGGACCGGCGGCGGCAGCGCGCTTCGCAAGACACCGAGGACGAGGAATCTGGTGCT
TCGGGCTCCGACAGCGGCGGCTCCCCGTTGCGGGGAGGCGGGAGCTGCAGCGGTAGCGCC
GGAGGCGGCGGCAGCGGCTCTCTGCCTTCACAGCGCGGAGGCCGAACCGGGGCCCTTCAT
CTGCGGCGGGTGGAGAGCGGGGGCGCCAAGAGTGCTGAGGAGTCGGAGTGTGAGAGTGAA
GATGGCATTGAAGGTGATGCTGTTCTCTCGGATTATGAAAGTGCAGAAGACTCGGAAGGT
GAAGAAGGTGAATACAGTGAAGAGGAAAACTCCAAAGTGGAGCTGAAATCAGAAGCTAAT
GATGCTGTTAATTCTTCAACAAAAGAAGAGAAGGGAGAAGAAAAGCCTGACACCAAAAGC
ACTGTGACTGGAGAGAGGCAAAGTGGGGACGGACAGGAGAGCACAGAGCCTGTGGAGAAC
AAAGTGGGTAAAAAGGGCCCTAAGCATTTGGATGATGATGAAGATCGGAAGAATCCAGCA
TACATACCTCGGAAAGGGCTCTTCTTTGAGCATGATCTTCGAGGGCAAACTCAGGAGGAG
GAAGTCAGACCCAAGGGGCGTCAGCGAAAGCTATGGAAGGATGAGGGTCGCTGGGAGCAT
GACAAGTTCCGGGAAGATGAGCAGGCCCCAAAGTCCCGACAGGAGCTCATTGCTCTTTAT
GGTTATGACATTCGCTCAGCTCATAATCCTGATGACATCAAACCTCGAAGAATCCGGAAA
CCCCGATATGGGAGTCCTCCACAAAGAGATCCAAACTGGAACGGTGAGCGGCTAAACAAG
TCTCATCGCCACCAGGGTCTTGGGGGCACCCTACCACCAAGGACATTTATTAACAGGAAT
GCTGCAGGTACCGGCCGTATGTCTGCACCCAGGAATTATTCTCGATCTGGGGGCTTCAAG
GAAGGTCGTGCTGGTTTTAGGCCTGTGGAAGCTGGTGGGCAGCATGGTGGCCGGTCTGGT
GAGACTGTTAAGCATGAGATTAGTTACCGGTCACGGCGCCTAGAGCAGACTTCTGTGAGG
GATCCATCTCCAGAAGCAGATGCTCCAGTGCTTGGCAGTCCTGAGAAGGAAGAGGCAGCC
TCAGAGCCACCAGCTGCTGCTCCTGATGCTGCACCACCACCCCCTGATAGGCCCATTGAG
AAGAAATCCTATTCCCGGGCAAGAAGAACTCGAACCAAAGTTGGAGATGCAGTCAAGCTT
GCAGAGGAGGTGCCCCCTCCTCCTGAAGGACTGATTCCAGCACCTCCAGTCCCAGAAACC
ACCCCAACTCCACCTACTAAGACTGGGACCTGGGAAGCTCCGGTGGATTCTAGTACAAGT
GGACTTGAGCAAGATGTGGCACAACTAAATATAGCAGAACAGAATTGGAGTCCGGGGCAG
CCTTCTTTCCTGCAACCACGGGAACTTCGAGGTATGCCCAACCATATACACATGGGAGCA
GGACCTCCACCTCAGTTTAACCGGATGGAAGAAATGGGTGTCCAGGGTGGTCGAGCCAAA
CGCTATTCATCCCAGCGGCAAAGACCTGTGCCAGAGCCCCCCGCCCCTCCAGTGCATATC
AGTATCATGGAGGGACATTACTATGATCCACTGCAGTTCCAGGGACCAATCTATACCCAT
GGTGACAGCCCTGCCCCGCTGCCTCCACAGGGCATGCTTGTGCAGCCAGGAATGAACCTT
CCCCACCCAGGTTTACATCCCCACCAGACACCAGCTCCTCTGCCCAATCCAGGCCTCTAT
CCCCCACCAGTGTCCATGTCTCCAGGACAGCCACCACCTCAGCAGTTGCTTGCTCCTACT
TACTTTTCTGCTCCAGGCGTCATGAACTTTGGTAATCCCAGTTACCCTTATGCTCCAGGG
GCACTGCCTCCCCCACCACCGCCTCATCTGTATCCTAATACACAGGCCCCATCACAGGTA
TATGGAGGAGTGACCTACTATAACCCCGCCCAGCAGCAGGTGCAGCCAAAGCCCTCCCCA
CCCCGGAGGACTCCCCAGCCAGTCACCATCAAGCCCCCTCCACCTGAGGTTGTAAGCAGG
GGTTCCAGTTAA

Clone variation with respect to NM_007359.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007359 unedited
TATAGGGCGGCCGCGAATTCGCACGAGGAACACACACACACACACACACACACACACA
CACACACACACACACACACAGCGGGATGGCCGAGCGCCGCACGCGTAGCACGCCGGGACT
AGCTATCCAGCCTCCCAGCAGCCTCTGCGACGGGCGCGGTGCGTAAGTACCTCGCCGGTG
GTGGCCGTTCTCCGTAAGATGGCGGACCGGCGGCGGCAGCGCGCTTCGCAAGACACCGAG
GACGAGGAATCTGGTGCTTCGGGCTCCGACAGCGGCGGCTCCCCGTTGCGGGGAGGCGGG
AGCTGCAGCGGTAGCGCCGGAGGCGGCGGCAGCGGCTCTCTGCCTTCACAGCGCGGAGGC
CGAACCGGGGCCCTTCATCTGCGGCGGGTGGAGAGCGGGGGCGCCAAGAGTGCTGAGGAG
TCGGAGTGTGAGAGTGAAGATGGCATTGAAGGTGATGCTGTTCTCTCGGATTATGAAAGT
GCAGAAGACTCGGAAGGTGAAGAAGGTGAATACAGTGAAGAGGAAAACTCCAAAGTGGAG
CTGAAATCAGAAGCTAATGATGCTGTTAATTCTTCAACAAAAGAAGAGAAGGGAGAAGAA
NAGCCTGACACCAAAAGCACTGTGACTGGAGAGAGGCAAAGTGGGGACGGACAGGAGAGC
ACAGAGCCTGTGGAGAACANAGTGGGTAAAAAGGGCCCTAAGCATTTGGATGATGATGAA
GATCGGAAGAATNCAGCATACATACCTCGGAAAGGGCTCTTCTTTGAGCATGATCTTCGA
GGGGCAACTCAAGAGGGAGAAGTCAGACCCAAGGGGCGTCAGCGAAAGCTATGGAAGGAT
GAGGGTCNCTGGGAGCATGACAAGTCCGGGGAGATGAACAGNCCCCAAAGTCCCACAGGA
CTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007359 unedited
NCCCCCGGTTTAGCTATGNNACCGCGGCCGCTTNCTANGATCGAGTTTTTTTTTTTTTTT
TTTTATAGTCTAAATTTTATTATCTCCAAGTCACAATGCTGATCACAAATGGGCACCCTT
TAAAACAGTAACAAAAAACACCACCACACATGNGAAAAATCCTTGCAACTAAACACAGTG
GACCAACAGAGACAACTCTCACAGTGTCTTAAGGTCTGGGAATCTGGGCATGCTGCCCAC
AGGCTTGAGGAGACATCTTCAGGTTTAAGGCAAAGGGAACAGCCTACAAAAGGCACAACC
ACCAGCTACCCCTAGAAGAATCTCTTAGTTATTTCCTCCTTGGGGGTTACAGATTAAGTG
CCTCTCCCCACTCTCCATCCCACACCTGTGACTCAGAGTGATTAGGCCAGCTGCTAGATG
GAAGGAATAAAAACAGTGACATTACCGGGGAGAGACACAGCCACCATCTTTGCCCTCAGG
TTCTGTAGAAGGACAGGGACAGTGGCCAGGTTACCCCTGGCAGACGTATGTACTGCAGTA
ATAGGAATCTCTTCCACAGAGGCAGCAGAGAAGTGGTTTAGTGCCATGGATAGGGAGGAA
AGATAGGAGCCCTTGCCCAGAAGGTGACTGGCTTCCTTAGGCCTTAAGCCCAGGAGTTTT
TATATTCTGTCTGCAAGGACAAAAATAGAATTCGGGGAAAATAAGGTAGTAACATCTAAN
ACACTTGTAGCACGAAAGACGTGGAGAAGAGCAATTGCAAAGGACAGGGTAGACTGCTTG
CTGGAAATATTTGCCTTTAAAGAGAGCATCGTTCACAGCAACTGGAAAAGGGTGTAGCCA
GAAAAATGGGAAAGAAGAAAACCAGGCCCTCT

Restriction Sites: NotI-NotI

ACCN: NM_007359

Insert Size: 4000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_007359.3, NP_031385.2
RefSeq Size:	4119 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]