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Product datasheet for RC208495

CASC3 (NM_007359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASC3 (NM_007359) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CASC3
Synonyms:	BTZ; MLN51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC208495 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACCGGCGGCGGCAGCGCGCTTCGCAAGACACCGAGGACGAGGAATCTGGTGCTTCGGGCTCCG
ACAGCGGCGGCTCCCCGTTGCGGGGAGGCGGGAGCTGCAGCGGTAGCGCCGGAGGCGGCGGCAGCGGCTC
TCTGCCTTCACAGCGCGGAGGCCGAACCGGGGCCCTTCATCTGCGGCGGGTGGAGAGCGGGGGCGCCAAG
AGTGCTGAGGAGTCGGAGTGTGAGAGTGAAGATGGCATTGAAGGTGATGCTGTTCTCTCGGATTATGAAA
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AGAAGCTAATGATGCTGTTAATTCTTCAACAAAAGAAGAGAAGGGAGAAGAAAAGCCTGACACCAAAAGC
ACTGTGACTGGAGAGAGGCAAAGTGGGGACGGACAGGAGAGCACAGAGCCTGTGGAGAACAAAGTGGGTA
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CTTCTTTGAGCATGATCTTCGAGGGCAAACTCAGGAGGAGGAAGTCAGACCCAAGGGGCGTCAGCGAAAG
CTATGGAAGGATGAGGGTCGCTGGGAGCATGACAAGTTCCGGGAAGATGAGCAGGCCCCAAAGTCCCGAC
AGGAGCTCATTGCTCTTTATGGTTATGACATTCGCTCAGCTCATAATCCTGATGACATCAAACCTCGAAG
AATCCGGAAACCCCGATATGGGAGTCCTCCACAAAGAGATCCAAACTGGAACGGTGAGCGGCTAAACAAG
TCTCATCGCCACCAGGGTCTTGGGGGCACCCTACCACCAAGGACATTTATTAACAGGAATGCTGCAGGTA
CCGGCCGTATGTCTGCACCCAGGAATTATTCTCGATCTGGGGGCTTCAAGGAAGGTCGTGCTGGTTTTAG
GCCTGTGGAAGCTGGTGGGCAGCATGGTGGCCGGTCTGGTGAGACTGTTAAGCATGAGATTAGTTACCGG
TCACGGCGCCTAGAGCAGACTTCTGTGAGGGATCCATCTCCAGAAGCAGATGCTCCAGTGCTTGGCAGTC
CTGAGAAGGAAGAGGCAGCCTCAGAGCCACCAGCTGCTGCTCCTGATGCTGCACCACCACCCCCTGATAG
GCCCATTGAGAAGAAATCCTATTCCCGGGCAAGAAGAACTCGAACCAAAGTTGGAGATGCAGTCAAGCTT
GCAGAGGAGGTGCCCCCTCCTCCTGAAGGACTGATTCCAGCACCTCCAGTCCCAGAAACCACCCCAACTC
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GGTATGCCCAACCATATACACATGGGAGCAGGACCTCCACCTCAGTTTAACCGGATGGAAGAAATGGGTG
TCCAGGGTGGTCGAGCCAAACGCTATTCATCCCAGCGGCAAAGACCTGTGCCAGAGCCCCCCGCCCCTCC
AGTGCATATCAGTATCATGGAGGGACATTACTATGATCCACTGCAGTTCCAGGGACCAATCTATACCCAT
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GTTTACATCCCCACCAGACACCAGCTCCTCTGCCCAATCCAGGCCTCTATCCCCCACCAGTGTCCATGTC
TCCAGGACAGCCACCACCTCAGCAGTTGCTTGCTCCTACTTACTTTTCTGCTCCAGGCGTCATGAACTTT
GGTAATCCCAGTTACCCTTATGCTCCAGGGGCACTGCCTCCCCCACCACCGCCTCATCTGTATCCTAATA
CACAGGCCCCATCACAGGTATATGGAGGAGTGACCTACTATAACCCCGCCCAGCAGCAGGTGCAGCCAAA
GCCCTCCCCACCCCGGAGGACTCCCCAGCCAGTCACCATCAAGCCCCCTCCACCTGAGGTTGTAAGCAGG
GGTTCCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208495 protein sequence
Red=Cloning site Green=Tags(s)

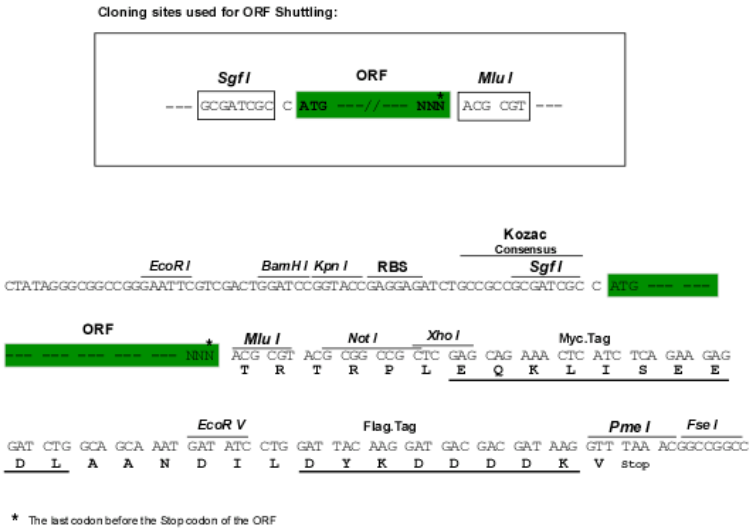
MADRRRQRASQDTEDEESGASGSDSGGSPLRGGGSCSGSAGGGGSGSLPSQRGGRTGALHLRRVESGGAK
SAEESECESEDGIEGDAVLSDYESAEDSEGEEGEYSEEENSKVELKSEANDAVNSSTKEEKGEEKPDTKS
TVTGERQSGDGQESTEPVENKVGKKGPKHLDDDEDRKNPAYIPRKGLFFEHDLRGQTQEEEVRPKGRQRK
LWKDEGRWEHDKFREDEQAPKSRQELIALYGYDIRSAHNPDDIKPRRIRKPRYGSPPQRDPNWNGERLNK
SHRHQGLGGTLPPRTFINRNAAGTGRMSAPRNYSRSGGFKEGRAGFRPVEAGGQHGGRSGETVKHEISYR
SRRLEQTSVRDPSPEADAPVLGSPEKEEAASEPPAAAPDAAPPPPDRPIEKKSYSRARRTRTKVGDAVKL
AEEVPPPPEGLIPAPPVPETTPTPPTKTGTWEAPVDSSTSGLEQDVAQLNIAEQNWSPGQPSFLQPRELR
GMPNHIHMGAGPPPQFNRMEEMGVQGGRAKRYSSQRQRPVPEPPAPPVHISIMEGHYYDPLQFQGPIYTH
GDSPAPLPPQGMLVQPGMNLPHPGLHPHQTPAPLPNPGLYPPPVSMSPGQPPPQQLLAPTYFSAPGVMNF
GNPSYPYAPGALPPPPPPHLYPNTQAPSQVYGGVTYYNPAQQQVQPKPSPPRRTPQPVTIKPPPPEVVSR
GSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6218_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007359

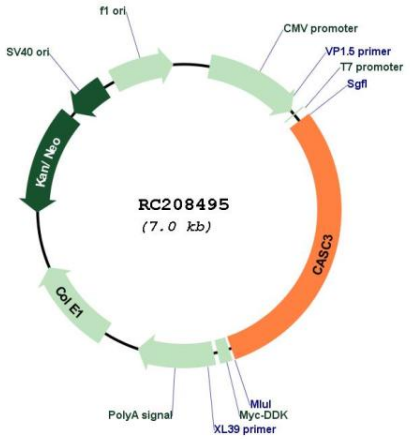
ORF Size: 2109 bp

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

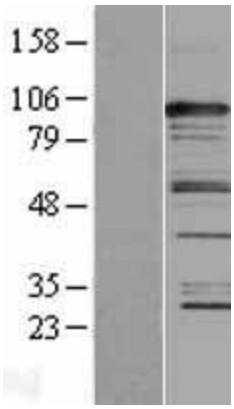
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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
MW:	76.3 kDa
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]

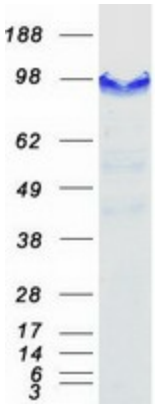
Product images:



Circular map for RC208495



Western blot validation of overexpression lysate (Cat# [LY416010]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208495 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CASC3 protein (Cat# [TP308495]). The protein was produced from HEK293T cells transfected with CASC3 cDNA clone (Cat# RC208495) using MegaTran 2.0 (Cat# [TT210002]).