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 MR221686

Casd1 (NM_145398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casd1 (NM_145398) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casd1
Synonyms:	Cas1; Cast1; SOAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR221686 representing NM_145398
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCTCTGGCCTACAACCTGGGCAAGCGGGAGATCAACCACTACTTCAGCGTGAGGAGCGCCAAGG
TGCTGGCGCTGGTGGCCGTGCTGCTGCTCGCAGCGTGCCACCTCGCGTCCCGCCGCTACCGAGGCAATGA
TTCGTGTGAATACCTTCTCTCGAGCGGCAGATTTCTTGGAGAAAAAGTTTGGCAACCTCACAGTTGTATG
ATGCATAAATACAAAATAAGTGAAGCAAAGACTTGCCTTGTAGATAAACACATTGCGTTTATTGGAGATT
CCAGGATCCGTCAATTATTTTATTCTTTTGTAAAAATCATTAACCCCCAGTTTAAAGAAGAAGGAAATAA
GCATGAAAACATTCCTTTTGAAGACAAGGCTGCATCAGTTAAAGTGGATTTTCTTTGGCATCCAGAAGTT
AATGGTTCCATGAAACAATGTATCAAGGTGTGGACTGAGGACTCGGTTTTGAAGCCCCATGTGATTGTAG
CAGGAGCAGCCACATGGTCCATCAAGATTCATAATGGCAGCGAGGAGGCACTAGCTCAGTATAAAATGAA
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CCAGTTTATGAGGATCTCTTAAGTGAAAATAGGAAAATGATTACCAATGAGAAGATAGACGCCTACAATG
AGGCTGCAGTCAGCATCCTGAACAGCAGCACCAGGACCTCTAAGTCCAATGTGAAGATGTTCAGTGTTTC
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AGCCTCGGCCACCTCTCACTCTCATTCAGAAGCTAGCTGCTTGCTTTTTCACTTTATCCATTATTGGGTA
TTTCATTTTCTATGTAATTCATCGTAATGCTCACCGGAAGAATAAACCATGTACTGATTTGGAGAGTGGC
GAGGAAAAGAAGAATATTATCAATACTCCTGTGTCTTCATTAGAAATACTTTTACAGTCTTTTTGCAAAC
TTGGCCTGATTATGGCTTATTTCTATATGTGTGACCGTGCAAACCTGTTTATGAAGGAAAACAAATTTTA
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AAAGAGACTAAAGTGTTAAATAGAGAGCAAACTGATGAATGGAAAGGCTGGATGCAGCTTGTGATTTTGA
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TCTGTTTCAGACAGGGTACGGGCATTTCTCTTACTTTTGGATCAAAGGAGATTTTGGGATTCATAGAGTG
TGTCAGGTCTTATTTCGTCTCAATTTCCTGGTTGTGGTGTTATGTATCGTAATGGATCGACCATATCAGT
TCTATTACTTTGTCCCCTTGGTTACCGTGTGGTTCATGGTCATATATGTCACTTTAGCACTGTGGCCACA
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CCAAATGTTTTGAACTAGAAGGGAGCGTGTATGAATGGTGGTTCAGGTGGAGGCTAGACCGCTACGTTGT
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GGTGAACCACTCTTTTCAAACAAAATTTCCAACTTTCTATTGTTTGTTTCAGTAGTGTCTTTCTTGACCT
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ACAGATTGTAGCCTTCATCCTGATAAGGAACATACCTGGATATGCCCGTTCTATATACAGTTCTTTTTTT
GCTTGGTTTGGAAAAATTTCACTAGAGCTGTTCATCTGCCAGTACCACATCTGGCTGGCAGCAGACACAA
GGGGCATCCTGGTCCTCATCCCTGGAAACCCGACACTCAACATCATCGTCAGCACGTTCATCTTCGTTTG
TGTGGCACATGAGATTTCTCAGATCACCACTGACCTCGCGCAGGTCGTTATTCCTAAAGATAACCCGTCT
CTCTTCCGAAGGCTGGCATGTACGATTGCATTCTTTGGTGGAGTCCTCATCTTATCCTCCATTCAAGATA
AATCAAGACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221686 representing NM_145398
Red=Cloning site Green=Tags(s)

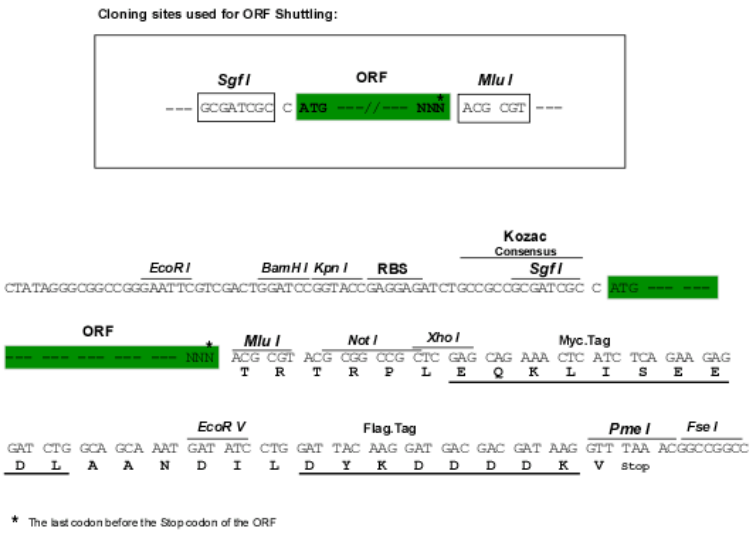
MAALAYNLGKREINHYFSVRSAKVLALVAVLLLAACHLASRRYRGNDSCEYLLSSGRFLGEKVWQPHSCM
MHKYKISEAKTCLVDKHIAFIGDSRIRQLFYSFVKIINPQFKEEGNKHENIPFEDKAASVKVDFLWHPEV
NGSMKQCIKVWTEDSVLKPHVIVAGAATWSIKIHNGSEEALAQYKMNITSIAPLLEKLAKTSDVYWVLQD
PVYEDLLSENRKMITNEKIDAYNEAAVSILNSSTRTSKSNVKMFSVSKLIAQETIMESLDGLHLPESSRE
TSAMILMNVYCNKVVKPVDGSCCQPRPPLTLIQKLAACFFTLSIIGYFIFYVIHRNAHRKNKPCTDLESG
EEKKNIINTPVSSLEILLQSFCKLGLIMAYFYMCDRANLFMKENKFYTHSSFFIPIIYILVLGVFYNENT
KETKVLNREQTDEWKGWMQLVILIYHISGASTFLPVYMHIRVLVAAYLFQTGYGHFSYFWIKGDFGIHRV
CQVLFRLNFLVVVLCIVMDRPYQFYYFVPLVTVWFMVIYVTLALWPQITQKKANGNFFWYLGLLLKLGLL
LLCIWFLAYSQGAFEKIFSLWPLSKCFELEGSVYEWWFRWRLDRYVVFHGVLFAFIYLALQRRQILSEGK
GEPLFSNKISNFLLFVSVVSFLTYSIWASSCKNKAECNELHPSVSVVQIVAFILIRNIPGYARSIYSSFF
AWFGKISLELFICQYHIWLAADTRGILVLIPGNPTLNIIVSTFIFVCVAHEISQITTDLAQVVIPKDNPS
LFRRLACTIAFFGGVLILSSIQDKSRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145398

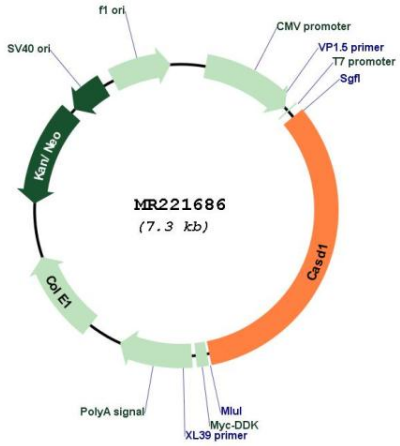
ORF Size: 2391 bp

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 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_145398.4
RefSeq Size:	3760 bp
RefSeq ORF:	2394 bp
Locus ID:	213819
UniProt ID:	Q7TN73
Cytogenetics:	6 1.81 cM
MW:	92.1 kDa
Gene Summary:	O-acetyltransferase that catalyzes 9-O-acetylation of sialic acids. Sialic acids are sugars at the reducing end of glycoproteins and glycolipids, and are involved in various processes such as cell-cell interactions, host-pathogen recognition.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221686