

Product datasheet for **RC209193**

CASD1 (NM_022900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASD1 (NM_022900) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CASD1
Synonyms:	C7orf12; NBLA04196; SOAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC209193 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCTGGCCTACAACCTGGCAAGCGGGAGATCAACCCTACTTCAGCGTGAGGAGCGCCAAGG
 TGCTGGCGCTGGTGGCCGTGCTGCTGCTCGCAGGGTGCCACCTCGCCTCCCGCCGTACCGAGGCAATGA
 TTCGTGTGAATACCTTCTCAAGTGGCAGATTTCTGGAGAGAAAAGTTGGCAACCTCACAGTTGTATG
 ATGCATAAATACAAAATCAGTGAAGCAAAGAACTGCCTGTAGATAAACATATTGCATTTATTGGAGATT
 CCAGAATTCGTC AATTGTTTTATTCTTTTGTAAAAATAATTAATCCCAATTCAAAGAAGAAGGAAATAA
 GCATGAAAACATTCCTTTTGAAGACAAGACTGCATCAGTTAAAGTGGATTTTCTGTGGCATCCTGAAGTT
 AATGGTCTATGAAACAGTGTATCAAAGTGTGGACTGAGGATTCATTGCAAAGCCACATGTGATTGTAG
 CAGGAGCTGCCACATGGTCCATCAAGATTCACAATGGTAGCAGTGAAGCGCTTTCTCAATATAAAATGAA
 CATCACCTCCATAGCACCACTTTTGA AAAAATTGGCAAAGACTAGTGATGTTTATTGGGTCTTACAAGAT
 CCTGTTTATGAAGATCTATTAAGTGA AAAATAGGAAGATGATCACTAATGAGAAGATAGATGCTTACAATG
 AAGCTGCAGTCAGTATTTTGAATAGTAGCACCAGAAAATCTAAATCAAATGTTAAGATGTTCAAGTGTTC
 CAAATTAATTGCTCAAGAAACCATCATGGAATCTTTGGATGGCTTACATCTTCTGAATCGAGCAGAGAA
 ACTACTGCAATGATTCTTATGAATGTGTATTGCAATAAGATTTTGAAGCCTGTAGATGGGTCCTGTTGTC
 AACCTCGGCCCTCTGTTACTCTCATACAGAAGCTAGCTGCTTGTTTTTCACTTTATCTATTATCGGATA
 TTTAATTTTTTACATAATTCATCGTAATGCTCATCGGAAGAATAAGCCGTGACTGATTTGGAAAGTGGAA
 GAGGAAAAGAAAAATATTATCAATACCCTGTGCTTTCATTAGAAATACTTTTACAATCTTTCTGCAAAAC
 TTGGCCTGATTATGGCATATTTCTATATGTGTGACAGTGC AAATCTGTTTCATGAAGGAAAACAAAATTTTA
 TACACATTCATCTTTCTTTATTCCAATTATCTACATTTTGGTTTTGGGAGTATTTTATAATGAAAATACT
 AAAGAGACTAAAGTATTAATAGAGAACAACAGACGAATGGAAGGCTGGATGCAACTGTGATTTTGA
 TTTATCACATTTCTGGAGCAAGTACATTTTGCCTGTATACATGCACATTCGAGTTCTGGTTGCTGCATA
 TTTATTTTCAGACAGGATGGGCATTTCTCATACTTTTGGATAAAAAGGAGATTTTGGAACTACAGAGTA
 TGTCAGGTTTTATTTCTGCTCAATTTCTGGTAGTGGTGTATGTATAGTAATGGATCGACCTTATCAAT
 TCTATTACTTTGCCCCTTGGTCACTGTATGGTTCATGGTCATATATGTTACTTTAGCACTATGGCCACA
 AATAATCCAAAAAAGCAAACGGAAATGTTTCTGGCATTGGCTTACTGTTGAAACTAGGCTTTTTTG
 CTGTTATTCATATGTTTTTGGCATATTCTCAGGGTGCATTTGAGAAGATCTTTTCTTTGGCCATTGT
 CCAAGTGTTTTGAAGTGAAGGGGAATGTATATGAATGGTGGTTCAGATGGAGGTTAGACCGTTATGTAGT
 TTTCCACGGAATGCTGTTTGCTTTTATTATCTGGCCTTGCAAGAAGCGTCAAATACTTTCTGAAGGAAAAG
 GGTGAACCTCTTTTTTCAAACAAAATTTCAAATTTCTGTTGTTATTTTCAGTAGTTTCTTTCTTGACCT
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 GCTTGGTTTGGAAAAATTCATTAGAGCTATTTATTTGCCAGTATCACATATGGCTGGCAGCGGACACAA
 GGGGTATCTTGGTACTGATACCTGGAAACCCTATGCTCAACATCATTGTCAGCACTTTCAATTTGTTTG
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 CTCTTGA AAAAGTTGGCATGTATAGCTGCATTTTTTTGTGGACTCCTCATCTTATCATCCATTCAAGATA
 AATCAAAACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209193 protein sequence
Red=Cloning site Green=Tags(s)

MAALAYNLGKREINHYFSVRSKVLALVAVLLLAACHLASRRYRGNDSCHEYLLSSGRFLGEKVVWQPHSCM
MHKYKISEAKNCLVDKHIAFIGDSRIRQLFYFVKIINPQFKEEGNKHENIPFEDKTASVKVDLWHPEV
NGSMKQCIKVVWTEDESIAPHVIVAGAATWSIKIHNGSSEALSQYKMNITSIAPLLEKLAKTSDVYVWLQD
PVYEDLLSENRMITNEKIDAYNEAAVSILNSSTRNSKSNVKMFSVSKLIAQETIMESLDGLHLPESRE
TTAMILMNVCNKILKPVDSGCCQPRPPVTLIQKLAACFFTLIIIGYLIFYIIHRNAHRKNKPCTDLESG
EEKNIINTPVSSLEILLQSFCKLGLIMAYFYMCDSANLFMKENKFYTHSSFFIPIIYILVLGVFYNT
KETKVLNREQTDEWKGWMLVILYHISGASTFLPVYMHIRVLAAYLFQTGYGHFSYFWIKGDFGIYRV
CQVLFRLNFLVVVLCIVMDRYPYQFYFVPLVTVWFMVIYVTLALWPQIIQKKANGNCFWHFLLKLGL
LLFICFLAYSQGAFEKIFSLWPLSKCFELKGNVYEWFRWRLDRYVVFHGMLFAFIYLALQKRQILSEGK
GEPLFSNKISNLLFISVVSFLTYSIWASSCKNKAECNELHPSVSVVQILAFILIRNIPGYARSVYSSFF
AWFGKISLELFCQYHIWLAADTRGILVLIIPGNPLNIIIVSTFIFVCAHEISQITNDLAQIIIPKDSS
LLKRLACIAAFFCGLLILSSIQDKSKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6218_d02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_022900

ORF Size: 2391 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_022900.3](#), [NP_075051.3](#)

RefSeq Size: 3898 bp

RefSeq ORF: 2394 bp

Locus ID: 64921

UniProt ID: [Q96PB1](#)

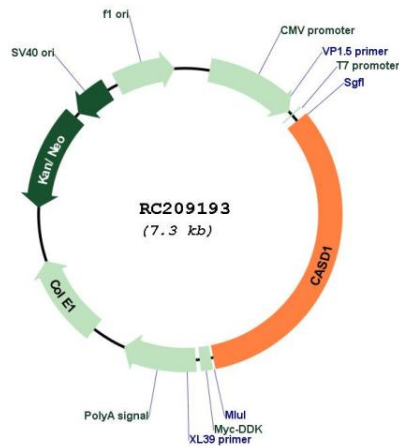
Cytogenetics: 7q21.3

Protein Families: Transmembrane

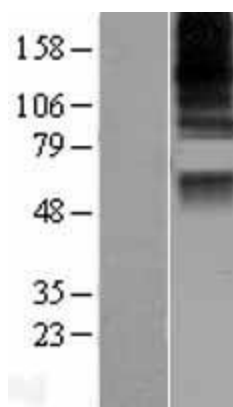
MW: 91.6 kDa

Gene Summary: O-acetyltransferase that catalyzes 9-O-acetylation of sialic acids (PubMed:20947662, PubMed:26169044). 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 (PubMed:20947662, PubMed:26169044).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC209193



Western blot validation of overexpression lysate (Cat# [LY411473]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209193 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).