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Product datasheet for SC108153

CASD1 (NM_022900) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CASD1 (NM_022900) Human Untagged Clone
Tag:	Tag Free
Symbol:	CASD1
Synonyms:	C7orf12; NBLA04196; SOAT
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_022900, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCTCTGGCCTACAACCTGGGCAAGCGGGAGATCAACCACTACTTCAGCGTGAGGAGCGCCAAGG
TGCTGGCGCTGGTGGCCGTGCTGCTGCTCGCAGCGTGCCACCTCGCCTCCCGCCGCTACCGAGGCAATGA
TTCGTGTGAATACCTTCTCTCAAGTGGCAGATTTCTTGGAGAGAAAGTTTGGCAACCTCACAGTTGTATG
ATGCATAAATACAAAATCAGTGAAGCAAAGAACTGCCTTGTAGATAAACATATTGCATTTATTGGAGATT
CCAGAATTCGTCAATTGTTTTATTCTTTTGTAAAAATAATTAATCCCCAATTCAAAGAAGAAGGAAATAA
GCATGAAAACATTCCTTTTGAAGACAAGACTGCATCAGTTAAAGTGGATTTTCTGTGGCATCCTGAAGTT
AATGGTTCTATGAAACAGTGTATCAAAGTGTGGACTGAGGATTCCATTGCAAAGCCACATGTGATTGTAG
CAGGAGCTGCCACATGGTCCATCAAGATTCACAATGGTAGCAGTGAAGCGCTTTCTCAATATAAAATGAA
CATCACCTCCATAGCACCACTTTTAGAAAAATTGGCAAAGACTAGTGATGTTTATTGGGTCTTACAAGAT
CCTGTTTATGAAGATCTATTAAGTGAAAATAGGAAGATGATCACTAATGAGAAGATAGATGCTTACAATG
AAGCTGCAGTCAGTATTTTGAATAGTAGCACCAGAAATTCTAAATCAAATGTTAAGATGTTCAGTGTTTC
CAAATTAATTGCTCAAGAAACCATCATGGAATCTTTGGATGGCTTACATCTTCCTGAATCGAGCAGAGAA
ACTACTGCAATGATTCTTATGAATGTGTATTGCAATAAGATTTTGAAGCCTGTAGATGGGTCCTGTTGTC
AACCTCGGCCTCCTGTTACTCTCATACAGAAGCTAGCTGCTTGTTTTTTCACTTTATCTATTATCGGATA
TTTAATTTTTTACATAATTCATCGTAATGCTCATCGGAAGAATAAGCCGTGTACTGATTTGGAAAGTGGA
GAGGAAAAGAAAAATATTATCAATACCCCTGTGTCTTCATTAGAAATACTTTTACAATCTTTCTGCAAAC
TTGGCCTGATTATGGCATATTTCTATATGTGTGACCGTGCAAATCTGTTCATGAAGGAAAACAAATTTTA
TACACATTCATCTTTCTTTATTCCAATTATCTACATTTTGGTTTTGGGAGTATTTTATAATGAAAATACT
AAAGAGACTAAAGTATTAAATAGAGAACAAACAGACGAATGGAAAGGCTGGATGCAACTTGTGATTTTGA
TTTATCACATTTCTGGAGCAAGTACATTTTTGCCTGTATACATGCACATTCGAGTTCTGGTTGCTGCATA
TTTATTTCAGACAGGGTATGGGCATTTCTCATACTTTTGGATAAAAGGAGATTTTGGAATCTATAGAGTA
TGTCAGGTTTTATTTCGTCTCAATTTCCTGGTAGTGGTGTTATGTATAGTAATGGATCGACCTTATCAAT
TCTATTACTTTGTCCCCTTGGTCACTGTATGGTTCATGGTCATATATGTTACTTTAGCACTATGGCCACA
AATAATCCAAAAAAAAGCAAACGGAAATTGTTTCTGGCATTTTGGCTTACTGTTGAAACTAGGCTTTTTG
CTGTTATTCATATGTTTTTTGGCATATTCTCAGGGTGCATTTGAGAAGATCTTTTCTCTTTGGCCATTGT
CCAAGTGTTTTGAACTGAAAGGGAATGTATATGAATGGTGGTTCAGATGGAGGTTAGACCGTTATGTAGT
TTTCCACGGAATGCTGTTTGCTTTTATTTATCTGGCTTTGCAGAAGCGTCAAATACTTTCTGAAGGAAAG
GGTGAACCTCTTTTTTCAAACAAAATTTCAAATTTTCTGTTGTTTATTTCAGTAGTTTCTTTCTTGACCT
ATTCCATCTGGGCTAGCAGTTGTAAAAACAAAGCAGAGTGCAATGAACTCCATCCGTCTGTTTCTGTGGT
ACAGATTTTAGCCTTCATCCTAATAAGAAACATCCCTGGATATGCCCGTTCAGTTTACAGTTCATTTTTT
GCTTGGTTTGGAAAAATTTCATTAGAGCTATTTATTTGCCAGTATCACATATGGCTGGCAGCGGACACAA
GGGGTATCTTGGTACTGATACCTGGAAACCCTATGCTCAACATCATTGTCAGCACTTTCATATTTGTTTG
TGTGGCACATGAAATTTCTCAGATCACTAATGATCTTGCACAGATTATTATTCCTAAAGATAACTCATCT
CTCTTGAAAAGGTTGGCATGTATAGCTGCATTTTTTTGTGGACTCCTCATCTTATCATCCATTCAAGATA
AATCAAAACATTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022900 unedited
TACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGAGGATTCCATTGCAAAGCCA
CATGTGATTGTAGCAGGAGCTGCCACATGGTCCATCAAGATTCACAATGGTAGCAGTGAA
GCGCTTTCTCAATATAAAATGAACATCACCTCCATAGCACCACTTTTAGAAAAATTGGCA
AAGACTAGTGATGTTTATTGGGTCTTACAAGATCCTGTTTATGAAGATCTATTAAGTGAA
AATAGGAAGATGATCACTAATGAGAAGATAGATGCTTACAATGAAGCTGCAGTCAGTATT
TTGAATAGTAGCACCAGAAATTCTAAATCAAATGTTAAGATGTTCAGTGTTTCCAAATTA
ATTGCTCAAGAAACCATCATGGAATCTTTGGATGGCTTACATCTTCCTGAATCGAGCAGA
GAAACTACTGCAATGATTCTTATGAATGTGTATTGCAATAAGATTTTGAAGCCTGTAGAT
GGGTCCTGTTGTCAACCTCGGCCTCCTGTTACTCTCATACAGAAGCTAGCTGCTTGTTTT
TTCACTTTATCTATTATCGGATATTTAATTTTTTACATAATTCATCGTAATGCTCATCGG
AAGAATAAGCCGTGTACTGATTTGGAAAGTGGAGAGGAAAAGAAAAAATTATCAATACCC
CTGTGTCTTCATTAGAATACTTTTACAATCTTTCTGCNAACTTGGCCTGATTATGGCATA
TTTCTATTATGTGTGACCGTGCAAATNNCTGTCATGAAGANAACANNATTTATANCACAT
TCATCTTTCTTTATTCCCAATATCTACATTNNTGGNTNTGGGGAGTATTNTATAATGNAA
ATACTANAGAGNACCTAAGTNNTTAATAGAGAACCAACAGACAATGGGAAGGCTGGATGC
CNACTGTGATTTGATTATCACATTCTGGAGCAGTACCATTTTGCCTGTATACTGCCAACT
CAGAGATTTGGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022900 unedited
GACCGCGGGCCGCATATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAAAAAGACACATA
TAGTTTAATTGATACTTTGCCAATACAAAAATAAGCATCCACAGAATGTTTATTTACTGT
TTAAATTACTCCATATTTTCATATACTGTGAACAGAAAATATATTTTACCCCACATATAG
TAAAAGCAAACAAGTGCAATCTTTCAAACATTAAAATCATAATCAAATCTGTACAACAGA
TAAATAAATGTATACCTCTAACAGTTAGCTTGTAAAAAAAAATCAAACAAAAAGCAAAAA
CATCTATGGCCCAAATTCACCAGTTTACTTAAAATTCTACTTATGGTAATACAGCTCAAT
CATAACAACTTGCATGTTTACTACACTGCACAAGTTTAGACTGATAAATATTTAAAATAG
GAGGTGGGTAATAGGAAATACCAAATGGCTATAAAGAGCTTTCCAAATATTGGAAATAAT
ATACGAAAATTAATTAGTGGGGATAACATATTAAATGGATCCACAGGGTAACTGGTATTA
CACTGGTATAGCTTGAGGAAAGGAAACAGGTGAACGTTTGGATTGGAAAAAAAATTTTGG
CTNTTTTATAAAACGAAGCAACAATAACATCAACAATGACAAAACCCTGTCATGGAGCCT
CAGAACTATTCTGTGAGACAAAGTGTACAAAGATTTAGGCTTGCATACCCGAAACCACAG
TTAGGAAAGAAAATCATTTCAGGAANACACATCAGAAACAGACACATATAAATTAAGGCA
TACTGTTTATCATTTCACTCCATTGCACATATAAGAAACAATACTGGCGTCATTCTTGAG
TAAGAAAGTTTCCATGAAAGAGGAGTTCCACAATGATACAGTGGCANCAGTCTTTATACA
ACAATTAGTATATCAAACCCTGGGGGTGCACTAGTTAATTAATATCTTACTT

Restriction Sites: NotI-NotI

ACCN: NM_022900

Insert Size: 4100 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_022900.1, NP_075051.1
RefSeq Size:	3898 bp
RefSeq ORF:	969 bp
Locus ID:	64921
UniProt ID:	Q96PB1
Cytogenetics:	7q21.3
Protein Families:	Transmembrane
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]