

Product datasheet for **RC209708**

SIAE (NM_170601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIAE (NM_170601) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIAE
Synonyms:	AIS6; CSE-C; CSEC; LSE; YSG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209708 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGTCGCGCCGGGGCTTGTACTCGGGCTGGTGTGCCATTAATCCTGTGGGCCGACAGAAGTGCAGGTA
 TTGGTTTTCGCTTTGCTTCATACATCAATAATGATATGGTGTGCAGAAGGAGCCTGCTGGGGCAGTGAT
 ATGGGGCTTCGGTACACCTGGAGCCACAGTGACCGTGACCCTGCGCCAAGGTGAGAAACCATCATGAAG
 AAAGTGACCAGTGTGAAAGCTCACTCTGATACGTGGATGGTGGTACTGGATCCTATGAAGCCTGGAGGAC
 CTTTCGAAGTGATGGCACAACAGACTTTGGAGAAAATAAACTTCACCCTGAGAGTTTCATGACGTCCTGTT
 TGGAGATGTCTGGCTCTGTAGTGGGCAGAGTAACATGCAGATGACTGTGTACAGATATTTAATGCTACA
 AGGGAGTTGTCTAACTGCGGCATATCAGTCTGTCCGCATCCTCTGTCTCTCCCATTCAGCAGAGC
 AGGAGCTGGAGGACCTTGTTCGGTTGACTTGCAGTGGTCTAAGCCACCTCAGAAAACCTAGGCCATGG
 ATATTTCAAGTACATGTCAGCAGTGTGCTGGCTCTTTGGACGTACCTTTATGACACTCTGCAGTATCCC
 ATCGGGCTGATCGCTCCAGCTGGGGCGGGACACCCATTGAAGCCTGGTCATCTGGACGGTCACTGAAAG
 CCTGTGGGGTCCCTAAACAAGGGTCCATTCCATACGATTCTGTAAGTGGTCCCAGTAAGCACTCTGTTCT
 CTGGAATGCCATGATCCATCCACTGTGCAATATGACTCTGAAAGGGGTAGTATGGTACCAGGGGGAGTCC
 AATATAAATTATAACACGGATCTGTACAATTGCACATTCCTGCACTCATCGAAGACTGGCGTGAAACCT
 TCCACCGTGGTTCAGGGGCGAGCGGAGCGTTTCTTCCCATTTGGACTTGTCCAGTTATCTTCAGATTT
 GTCTAAGAAGAGCTCAGACGATGGATTTCCCGAGATCCGTTGGCATCAACAGCAGACTTCGGCTATGTC
 CCCAACCCAAAGATGCCAATACTTTTCATGGCTGTAGCTATGGATCTCTGTGATAGAGACTCGCCTTTTG
 GCAGCATCCACCTCGAGATAAACAGACTGTGGCTTATCGGCTGCATTTGGGGGCCGTGCTCTGGCTTA
 TGGTGAGAAGAATTTGACCTTTGAAGGACCACTGCCTGAGAAGATAGAAGTCTTGGCTCACAAAGGGGCTG
 CTCAATCTCACATATTACCAGCAAATCCAGGTGCAGAAAAGGACAACAAGATATTTGAGATCTCTGTT
 GCAGTGACCATCGATGCAAGTGGCTTCCAGCTTCTATGAACACCGTCTCCACCCAGTCCCTGACCTGGC
 GATCGATTCTTGTATGGCACTGTGTTGCTCTCCGCTATGCTTGGACCAGTGGCCTTGTGAATATAAG
 CAGTGTCCCTATACCACCCAGTAGTCCCTGCCAGCCCTCCATTCTTGTCTTCATTACAGACCAGG
 GTCCTGGACATCAGAGCAATGTTGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209708 protein sequence
 Red=Cloning site Green=Tags(s)

MVAPGLVLGLVPLILWADRSAGIGFRFASYINNDMVLQKEPAGAVIWGFGTPGATVTVTLRQQETIMK
 KVTSVKAHSDTWMVLDPMKPGGPFEVMAQQTLEKINFILRVHDLVFGDVWLCSGQSNMQMTVLQIFNAT
 RELSNTAAYQSVRILSVSPIQAEQELEDLVAVDLQWSKPTSENLGHYFKYMSAVCWLFGRHLYDTLQYP
 IGLIASSWGGTPIEAWSSGRSLKACGVPKQGSIPYDSVTGPSKHSVLWNAMIHPLCNMTLKGVVWYQGES
 NINYNTDLYNCTFPALIEDWRETFHRGSQGQTERFFPFLVQLSSDL SKKSSDDGFPQIRWHQTADFQYV
 PNPMPNTFMAMVDLDRDSPFGSIHPRDKQTVAYRLHLGARALAYGEKNLTFEGPLPEKIELLAHKGL
 LNLTYQIQVQKDNKIFEISCCSDHRCKWLPASMNTVSTQSLTLAIDSCHGTVALRYAWTTWPCEYK
 QCPLYHPSSALPAPPFIAFITDQGPQHNSNAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6530_d11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_170601

ORF Size: 1569 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_170601.5](#)

RefSeq Size: 2907 bp

RefSeq ORF: 1572 bp

Locus ID: 54414

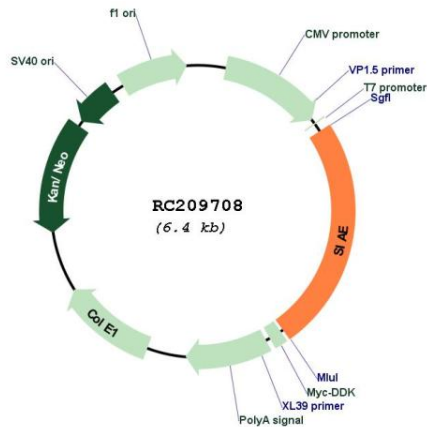
UniProt ID: Q9HAT2

Cytogenetics: 11q24.2

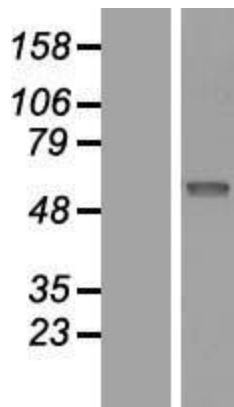
MW: 58.3 kDa

Gene Summary: This gene encodes an enzyme which removes 9-O-acetylation modifications from sialic acids. Mutations in this gene are associated with susceptibility to autoimmune disease 6. Multiple transcript variants encoding different isoforms, found either in the cytosol or in the lysosome, have been found for this gene.[provided by RefSeq, Feb 2011]

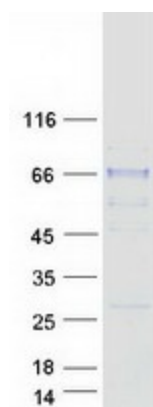
Product images:



Circular map for RC209708



Western blot validation of overexpression lysate (Cat# [LY406912]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209708 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIAE protein (Cat# [TP309708]). The protein was produced from HEK293T cells transfected with SIAE cDNA clone (Cat# RC209708) using MegaTran 2.0 (Cat# [TT210002]).