

Product datasheet for **SC100667**

SIAE (NM_170601) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIAE (NM_170601) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIAE
Synonyms:	AIS6; CSE-C; CSEC; LSE; YSG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_170601, the custom clone sequence may differ by one or more nucleotides

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ATGGTCGCGCCGGGGCTTGACTCGGGCTGGTGTGCCATTAATCCTGTGGGCCGACAGAAGTGCAGGTA
TTGGTTTTCGCTTTGCTTCATACATCAATAATGATATGGTGTGCAGAAGGAGCCTGCTGGGGCAGTGAT
ATGGGGCTTCGGTACACCTGGAGCCACAGTGACCGTGACCCTGCGCCAAGGTCAGGAAACCATCATGAAG
AAAGTGACCAGTGTGAAAGCTCACTCTGATACGTGGATGGTGGTACTGGATCCTATGAAGCTGGAGGAC
CTTTCGAAGTGATGGCACAACAGACTTTGGAGAAAATAAACTTCACCCTGAGAGTTCATGACGCTCTGTT
TGGAGATGTCTGGCTCTGTAGTGGGCAGAGTAACATGCAGATGACTGTGTACAGATATTTAATGTACA
AGGGAGTTGTCTAACACTGCGGCATATCAGTCTGTCCGCATCCTCTGTCTCTCCATTCAAGCAGAGC
AGGAGCTGGAGGACCTTGTGCGGTTGACTTGCAGTGGTCTAAGCCACCTCAGAAAAGTGGCCATGG
ATATTTCAAGTACATGTCAGCAGTGTCTGGCTCTTGGACGTCACCTTTATGACACTCTGCAGTATCCC
ATCGGGCTGATCGCTCCAGCTGGGGCGGGACACCCATTGAAGCCTGGTCATCTGGACGGTCACTGAAAG
CCTGTGGGGTCCCTAAACAAGGGTCCATTCATACGATTCTGAACTGGTCCCAGTAAGCACTCTGTTCT
CTGGAATGCCATGATCCATCCACTGTGCAATATGACTCTGAAAGGGGTAGTATGGTACCAGGGGGAGTCC
AATATAAATTATAACACGGATCTGTACAATTGCACATTCCTGCACCTCATCGAAGACTGGCGTGAACCT
TCCACCGTGGTCCCAGGGGCAGACGGAGCGTTTCTTCCATTTGGACTTGTCCAGTTATCTTCAGATTT
GTCTAAGAAGAGCTCAGACGATGGATTTCCCAGATCCGTTGGCATCAAACAGCAGACTTCGGCTATGTC
CCCAACCCAAAGATGCCAATACTTTTATGGCTGTAGCTATGGATCTCTGTGATAGAGACTCGCCTTTTG
GCAGCATCCACCTCGAGATAAACAGACTGTGGCTTATCGGCTGCATTTGGGGCCCGTCTGTGGCTTA
TGGTGAGAAGAATTTGACCTTTGAAGGACCACTGCCTGAGAAGATAGAAGTCTTGGCTCACAAGGGGCTG
TCAATCTCACATATTACCAGCAAATCCAGGTGCAGAAAAGGACAACAAGATATTTGAGATCTCCTGTT
GCAGTGACCATCGATGCAAGTGGCTTCCAGCTTCTATGAACACCGTCTCCACCCAGTCCCTGACCCCTGGC
GATCGATTCTTGTGATGGCACTGTGGTTGCTCTCCGCTATGCTTGGACCAGTGGCCTTGTGAATAAAG
CAGTGTCCCTATACCACCCAGTAGTGCCTGCCAGCCCTCCCTTCATTGCTTTCATTACAGACCAGG
GTCCTGGACATCAGAGCAATGTTGCTAAATGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_170601 unedited

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CCCCGCCCGTTGNCGCAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGA
GCTCGTTTAGTGAACCGTCAAGATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATT
CGGCACCAGGATCCTTGAAGCATGGTTCGCGCCGGGGCTTGACTCGGGCTGGTGTGCC
ATTAATCCTGTGGGCCGACAGAAGTGCAGGTATTGGTTTTCGCTTTCATACATCAA
TAATGATATGGTGTGCAGAAGGAGCCTGCTGGGGCAGTGATATGGGGCTTCGGTACACC
TGGAGCCACAGTGACCGTGACCTGCGCCAAGGTCAGGAAACCATCATGAAGAAAGTGC
CAGTGTGAAAGCTCACTCTGATACGTGGATGGTGGTACTGGATCCTATGAAGCCTGGAGG
ACTTTTGAAAGTATGGCACAACAGACTTTGGAGAAAATAAACTTCACCCTGAGAGTTCA
TGACGCTCTGTTGGAGATGTCTGGCTCTGTAGTGGGCAGAGTAACATGCAGATGACTGT
GTTACAGATATTTAATGCTACAAGGGAGTTGTCTAACACTGCGGCATATCAGTCTGTCCG
CATCCTCTGTCTCTCCATTCAAGCAGAGCANGAGCTGGAGGACCTTGTGCGGTTGA
CTTGCAGTGGTCTAAGCCACCTCAGAAAAGTCCAGTATGATTTTCAAGTACATGTCAGCAG
TGTGCTGGCTCTTGGACGTCACCTTTATGACACTCTGCAGTATCCCATCGGGCTGATCG
NCTNCAGCTGGGGCGGNNACACCATTGAAGCCTGGTCACTGGACGGTCACTNGAAGCCT
GTTGGGTCCCTAANNACAGGGTNNCATNNCATAACGATCTTGTACTGGTCCCAGTAGCACTC
TTGTCTCTGGAATGCCATGATCATCCCTGGGCATATGACTCTGAAAGGGTAGTATGTACA
GGGGGAGTCCATTAATATACACCGATTGTCAATGCCAT
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_170601

Insert Size:

2750 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:	<ol style="list-style-type: none">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_170601.3 , NP_733746.1
RefSeq Size:	2868 bp
RefSeq ORF:	1572 bp
Locus ID:	54414
UniProt ID:	Q9HAT2
Cytogenetics:	11q24.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer protein (isoform 1). Isoform 1, also referred to as Lse, is the lysosomal form of the protein.</p>