

Product datasheet for **SC304796**

DSCAML1 (NM_020693) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DSCAML1 (NM_020693) Human Untagged Clone
Tag:	Tag Free
Symbol:	DSCAML1
Synonyms:	DSCAM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC304796 representing NM_020693. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GGATGACAGGAGCCGGGAGCCGAGGAGGAGGAGCCGCCGCGCAGCCGAGCGCTGGGCTGAGGAGCA
GAGAGAGCGGGCGCCGAGTGCAGGCGGCTGGGAGCGCGCTGAGCGGGGAGAGGCGCTGCCGACGGC
CGGCCACAGGACCACCTCCCGGAGAATAGGGCCTCTTTATGGCATGTGGCTGGTAACTTCTCCTGTC
TCCTGGACTCTTTACACAAAGCCGCCCTGAAGATGTTGGCACCAGCCTCTACTTTGTAAATGACTCCT
TGCAGCAGGTGACCTTTCCAGCTCCGTGGGGTGGTGGTGCCCTGCCCGGCCGCGGGCTCCCCAGCG
CGGCCCTTCGATGGTACCTGGCCACAGGGGACGACATCTACGACGTGCCGCACATCCGGCAGTCCACG
CCAACGGGACGCTGCAGCTCTACCCCTTCTCCCTCCGCTTCAATAGCTTTATCCACGACAATGACT
ACTTCTGCACCGGAGAACGCTGCCGGAAGATCCGGAGCCCCAACATCCGCGTCAAAGCAGTTTTCA
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TCATCCCTCTTTCAGTGCAAGGAATATGTTAGCGTTGTATCTTGGGAGAAAAGACACAGTCTCCATCATCC
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GCAGTGTGAATATCAGGCGCGAATAAACGTAAGAGGCCACCCAGCATCCGGGCTATGCGGAACATCA
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TCACTGTCTCCAAAACCTCAGCTTCGTCCATCACCTGACCTGGATTCCAGGTGACAATGGGGGCAGCT
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TCAGCAAAGACCAACACCTTTACCCACATCAACTCCACGCATGCTCGGCTTAACCTGCAGGGCTGGA
ACAATGGGGGCTGCCCTATCACAGCCATCGTTCTGGAGTACCGGCCCAAGGGGACCTGGGCTGGCAGG
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TTGACACCCCTGTGAAAGGGCCACCCAGGGGCCACGGCTACACATTGACATCCCGAGGTCCAGCTGC
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 CACCTGCCCGCACCTCACCTCCGACTGGCGCACCGTGGGCTCCCAGCATGGTGTACGGTCACTGAGA
 GTGACAGCTACAGTGCCAGCCTGTCCCAGGACACAGACAAAGGAAGGAACAGCATGGTGTCCACTGAGA
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 CTCGCCACCTGACCTGGACCTGCCAGCAAGTCTTGGGCTTCCCCACCCAGGGGCCCCGCTGCCG
 CCTCCACAGCCACCTTACCTCAGAGGACTCTGGCCATGCCAGCCCCCAGCCGGCACAGCCCCCAG
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 CTCACAGACCGGGGCCACACACCAAAATGGGGGGTCCAGGACTCGCTTCTCGAGATGAGCACAT
 CGGGGGTAGGGAGGTCTCAGAAGCAGGGGGCGGGGCTACTCCAAATCTACACCTGGTGTAGGGCC
 CGCAGGAAGAGCAGCCACGCCTGGACCGCGCGCGCCGACGCCCCACAGCCAGCTCGGCTGTTTTCT
 GCATTATTTATATTCAACTGACAGACAAAAACCAACGACAAAAACAAAAACCCCAATCATGAACG
 CCTGTACATAGAACTCTTTGTACAAATGAAACTATTTTCTTCTCTCCATGAAGCCAGGGCACAAGA
 ATTTGACAGTACAAGTCAAAATCCCCACCCACAAAATATGTGTGGAGATATATACATATATAGACA
 GACAGGAACGCGTCCACGAGCTATATCTATATATTTCTCTCACCCTATTTTGAGACAGAGGCACAAA
 GACTCAGCAATTTTTTCCCTCCTCCTCACCTTCCCCCAGTCTAGGTGGTTTTGACAAAGACCAAAAT
 CCCAATCAGAGACACTGCATGCGATTTTACTGTTCCAAGAAAACAGGAGTTGCTTCAATTTGCAGAT
 GCTTATGTGTTAATACCTTTTTCTATGAAAAAGACCCAGCGCCGTGTGCAATAAAGTTATGTTCTA
 AAAAAAAAAAAAAAAAAA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_020693 unedited
 NTGGGCTTTGGGTCTATCCCGCCGTTGCCCAATGGGCGGTAGGCGTGTACGGTGGGAG
 GTCTATATAAGCAGAGCTCGGTACCTCGGAATGCATCTAGAGATGGATGACAGGAGCCG
 GGGAGCCGAGGAGGAGGAGCCGCGCCGAGCCGAGCGTGGGCTGAGGAGCAGAGAGA
 GCGGGGCGCCGAGTGGGGCGGCTGGGAGCGCGCTGAGCGGGGAGAGGCGCTGCCGCAC
 GGCCGGCCACAGGACCACCTCCCGGAGAATAGGGCCTTTTATGGCATGTGGTGGTAA
 CTTTCTCCTGCTCCTGGACTCTTTACACAAAGCCCGCCCTGAAGATGTTGGCACCAGCC
 TCTACTTTGTAAATGACTCCTTGACGAGGTGACCTTTTCCAGCTCCGTGGGGTGGTGG
 TGCCCTGCCCGGCGGGGCTCCCCAGCGCGGCCCTTCGATGGTACCTGGCCACAGGGG
 ACGACATCTACGAGTGCCGCACATCCGGCACGTCCACGCCAACGGGACGCTGCAGCTCT
 ACCCTTCTCCCCCTCCGCTTCAATAGCTTTATCCACGACAATGACTACTTCTGCACCG
 CGGAGGACGCTGCCGGCAAGATCCGGAGCCCCACATCCGCGTCAAAGCAGTTTTTCAGGGA
 ACCCTACACCGTCCGGGTGGGAGATCAAAGGTCAATGCGTGGCACCCTGGCCGTTCTCAA
 GTGCCTCATCCCCTCTTCAAGTGAAGAATAATGTAGCGTTGTATCTTGGGAGGAAGGACA
 CATCTCCATCATCCAAGAACACAGTTTTTTAATTACCTACCACGGGCGGGCTGTACATC
 TCTGACGTACAGAAAGGAGGACGCCCTTTTCCACCTATTGTTG

3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_020693 unedited <pre> CATTGGTGATGGTCACTTGCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGGATGCC ACCCGGGATCTGTTTCAGGAAAAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTT TTTTTTTTTTTTTAGAAACATAACCTTTATTGCACACGGCGCTGGGTCTTTTTCATAG AAAAAGGTATTAACACATAAGCATCTGCAAATTGAAGCAACTCCTGGTTTTCTTGAACA GTAAATCGCATGCAGTGTCTCTGAGTTGGGATTTTGGTCTTTGTCAAAACACCTAGAC TGGGGGAAGGTGAGGAGGAGGAAAAAATTGCTGAGTCTTTGTGCCTCTGTCTCAAAA TAGGGTGAGAGAAATATATAGATATATAGCTCGTGGACGCGTTCCTGTCTGTATATAT GTATATATATCTCCACACATATTTGTGGGGTGGGGGATTGACTTGACTGTCAAAATTC TTTGTGCCTGGCTTCATGGAGAAGAAGAAAATAGTTTCATTTGTACAAAAGAGTTCTAT GTACAGGCGTTCATGATTGGGGTTTTTGTGTTGTCGTTGGTTGGTTTTTGTCTGTCACT TGAATATAAATAATGCAGAANAACAGCCGAGCTGGCGTGTGGNGCTGCGGCGNCGCGCGG TCCAGGCGTGGTGTCTTCTGCGGGCCCTACACCAGGGTGTAGGATTTGGAGTAGGCC CCGGCCCCCTGCTTCTGAGACCTNCCTACCCCCGATGTGCTCATCTCGAGAAGCGAGTCC CTGGAGCCCCCATTTTTGTGTGTGGGCCCCCGTTCGTGGAGGCTCGGTGCTTGNGGC CCGGAGGGCAACCTT </pre>
Restriction Sites:	Sgfl-NotI
ACCN:	NM_020693
Insert Size:	6919 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_020693.2</u>
RefSeq Size:	6899 bp
RefSeq ORF:	6919 bp
Locus ID:	57453
UniProt ID:	<u>Q8TD84</u>

Cytogenetics:	11q23.3
Protein Families:	Druggable Genome, Transmembrane
MW:	243.6 kDa
Gene Summary:	The protein encoded by this gene is a member of the Ig superfamily of cell adhesion molecules and is involved in neuronal differentiation. The encoded membrane-bound protein localizes to the cell surface, where it forms aggregates that repel neuronal processes of the same cell type. [provided by RefSeq, Sep 2016] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. CCDS Note: The coding region has been updated to start at a downstream in-frame start codon that is supported by transcript data.