

Product datasheet for **SC308394**

EXT2 (NM_207122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXT2 (NM_207122) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXT2
Synonyms:	SOTV; SSMS
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_207122, the custom clone sequence may differ by one or more nucleotides

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ATGTGTGCGTCGGTCAAGTATAATATCCGGGGTCTGCCCTCATCCCAAGAATGAAGACC
AAGCACCGAATCTACTATATCACCTCTTCTCCATTGTCTCCTGGGCTCATTGCCACT
GGCATGTTTCAGTTTTGGCCCCATTCTATCGAGTCCTCAAATGACTGGAATGTAGAGAAG
CGCAGCATCCGTGATGTGCCGGTTGTTAGGCTGCCAGCCGACAGTCCCATCCCAGAGCGG
GGGGATTCAGTTGCAGAATGCACACGTGTTTTGATGTCTATCGCTGTGGCTTCAACCCA
AAGAACAAAATCAAGGTGTATATCTATGCTCTGAAAAAGTACGTGGATGACTTTGGCGTC
TCTGTGACGAACACCATCTCCCGGGAGTATAATGAACTGCTCATGGCCATCTCAGACAGT
GACTACTACACTGATGACATCAACCGGGCTGTCTGTTTGTCCCTCCATCGATGTGCTT
AACCAGAACACACTGCGCATCAAGGAGACAGCACAAGCGATGGCCAGCTCTCTAGGTGG
GATCGAGGTACGAATCACCTGTTGTTCAACATGTTGCCTGGAGGTCCCCAGATTATAAC
ACAGCCCTGGATGTCCCAGAGACAGGGCCCTGTTGGCTGGTGGCGGCTTTTCTACGTGG
ACTTACCGCAAGGCTACGATGTCAGCATTCTGTCTATAGTCCACTGTCAGCTGAGGTG
GATCTTCCAGAGAAAGGACCAGGTCCACGGCAATACTTCTCCTGTCATCTCAGGTGGGT
CTCCATCCTGAGTACAGAGAGGACCTAGAAGCCCTCCAGGTCAAACATGGAGAGTCAGTG
TTAGTACTCGATAAATGCACCAACCTCTCAGAGGGTGTCTTTCTGTCCGTAAGCGCTGC
CACAAGCACCAGGTCTTCGATTACCCACAGGTGCTACAGGAGGCTACTTTCTGTGTGGTT
CTTCGTGGAGCTCGGCTGGGCCAGGCAGTATTGAGCGATGTGTTACAAGCTGGCTGTGTC
CCGTTTGTTCATTGCAGACTCCTATATTTTGCCTTTCTCTGAAGTCTTGACTGGAAGAGA
GCATCTGTGGTTGTACCAGAAGAAAAGATGTGAGATGTGTACAGTATTTTGCAGAGCATC
CCCCAAAGACAGATTGAAGAAAATGCAGAGACAGGCCCGGTGGTTCTGGGAAGCGTACTTC
CAGTCAATTAAGCCATTGCCCTGGCCACCCTGCAGATTATCAATGACCCGGATCTATCCA
TATGCTGCCATCTCCTATGAAGAATGGAATGACCCTCCTGCTGTGAAGTGGGGCAGCGTG
AGCAATCCACTCTTCTCCCGCTGATCCCACCACAGTCTCAAGGGTTACCCGCCATAGTC
CTCACCTACGACCGAGTAGAGAGCCTCTTCCGGGTCACTACTGAAGTGTCCAAGGTGCC
AGTCTATCCAACTACTTGTGCTGGAATAATCAGAATAAAAACCCCTCCAGAAGATTCT
CTCTGGCCAAAATCCGGGTTCCATTAAGTTGTGAGGACTGCTGAAAACAAGTTAAGT
AACCGTTTCTCCCTTATGATGAAATCGAGACAGAAGCTGTTCTGGCCATTGATGATGAT
ATCATTATGCTGACCTCTGACGAGCTGCAATTTGGTTATGAGGTCTGGCGGAATTTCT
GACCGGTTGGTGGTTACCCGGGTCGTCTGCATCTCTGGGACCATGAGATGAATAAGTGG
AAGTATGAGTCTGAGTGGACGAATGAAGTGTCCATGGTGTCTCACTGGGGCAGCTTTTAT
CACAAGTATTTTAATTACCTGTATACCTACAAAATGCCTGGGGATATCAAGAACTGGGTA
GATGCTCATATGAACTGTGAAGATATTGCCATGAACTTCTGGTGGCCAACGTCACGGGA
AAAGCAGTTATCAAGGTAACCCACGAAAGAAATCAAGTGTCTGAGTGCACAGCCATA
GATGGGCTTCTACTAGACCAAACACACATGGTGGAGAGGTGAGTGCATCAACAAGTTT
GCTTCAGTCTTCCGGACCATGCCTCTCAAGGTGGTGGAAACACCGAGCTGACCCTGTCTG
TACAAAGATGACTTTCTGAGAAGCTGAAGAGCTTCCCAACATTGGCAGCTTATGA

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Restriction Sites: Please inquire

ACCN: NM_207122

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_207122.1](#), [NP_997005.1](#)

RefSeq Size: 3651 bp

RefSeq ORF: 2157 bp

Locus ID: 2132

UniProt ID: [Q93063](#)

Cytogenetics: 11p11.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Heparan sulfate biosynthesis, Metabolic pathways

Gene Summary:

This gene encodes one of two glycosyltransferases involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type II form of multiple exostoses. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) is the predominant transcript and differs in the 5' UTR and coding region, compared to variant 1. These differences causes translation initiation at a downstream start codon and result in isoform (2) which has a shorter N-terminus, compared to isoform 1.