

Product datasheet for **SC119905**

EXT2 (NM_000401) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXT2 (NM_000401) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXT2
Synonyms:	SOTV; SSMS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000401, the custom clone sequence may differ by one or more nucleotides

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ATGTCCTGCGCCTCAGGGTCCGGTGGTGGCCTGCGGCATCCCTTGCAGTCCAGAACGCCGTGGGACGAGG
AGTGTGAGGAAGAGGCTGTCTGTGTCATTATGTGTGCGTCAAGTATAATATCCGGGGTCTGCCCTC
CATCCCAAGAATGAAGACCAAGCACCGAATCTACTATATCACCCCTTTCCATTGTCTCTGGGCCTC
ATTGCCACTGGCATGTTTCAGTTTTGGCCCCATTCTATCGAGTCCCAAATGACTGGAATGTAGAGAAGC
GCAGCATCCGTGATGTGCCGGTTGTTAGGCTGCCAGCCGACAGTCCCATCCCAGAGCGGGGGATCTCAG
TTGCAGAAATGCACACGTGTTTTGATGTCTATCGCTGTGGCTTCAACCCAAAGAACAAAATCAAGGTGAT
ATCTATGCTCTGAAAAAGTACGTGGATGACTTTGGCGTCTCTGTGAGCAACACCCTCTCCGGGAGTATA
ATGAACTGCTCATGGCCATCTCAGACAGTACTACTACACTGATGACATCAACCGGGCCTGTCTGTTTGT
TCCCTCCATCGATGTGCTTAACCAGAACACACTGCGCATCAAGGAGACAGCACAAGCGATGGCCAGCTC
TCTAGGTGGGATCGAGGTACGAATCACCTGTTGTTCAACATGTTGCCTGGAGGTCCCCAGATTATAACA
CAGCCCTGGATGTCCCAGAGACAGGGCCTGTTGGCTGGTGGCGGCTTTTCTACGTGGACTTACCGGCA
AGGCTACGATGTGAGCATTCTGTCTATAGTCCACTGTCAGCTGAGGTGGATCTTCCAGAGAAAGACCA
GGTCCACGGCAATACTTCTCCTGTCTCAGGTGGGTCTCCATCCTGAGTACAGAGAGACCTAGAAG
CCCTCCAGGTCAAACATGGAGAGTCAGTGTAGTACTCGATAAATGCACCAACCTCTCAGAGGGTCTCT
TTCTGTCCGTAAGCGCTGCCACAAGCACCAGGTCTTCGATTACCCACAGGTGCTACAGGAGGCTACTTTC
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CGGTTGTCATTGCAGACTCCTATATTTTGCCTTCTCTGAAGTCTTGACTGGAAGAGAGCATCTGTGGT
TGTACCAGAAGAAAAGATGTCAGATGTGTACAGTATTTTGCAGAGCATCCCCAAAGACAGATTGAAGAA
ATGCAGAGACAGGCCCGGTGGTTCTGGGAAGCGTACTTCCAGTCAATTAAGCCATTGCCCTGGCCACCC
TGCAGATTATCAATGACCGGATCTATCCATATGCTGCCATCTCCTATGAAGAATGGAATGACCCTCCTGC
TGTGAAGTGGGGCAGCGTGAAGCAATCCACTTCTCCTCCCGCTGATCCCACCACAGTCTCAAGGGTCCAC
GCCATAGTCTCACCTACGACCGAGTAGAGAGCCTCTTCCGGGTCACTCAAGTGTCCAAGGTGCCCA
GTCTATCCAAACTACTTGTGCTGGAATAATCAGAATAAAAACCTCCAGAAGATTCTCTGCCCCAA
AATCCGGTTCATTAAAAGTTGTGAGGACTGCTGAAAACAAGTTAAGTAACCGTTTCTTCCCTTATGAT
GAAATCGAGACAGAAGCTGTTCTGGCCATTGATGATGATATCATTATGCTGACCTCTGACGAGCTGCAAT
TTGGTTATGAGGTCTGGCGGAATTTCTGACCGGTTGGTGGTTACCCGGGTCGTGTCATCTCTGGGA
CCATGAGATGAATAAGTGAAGTATGAGTCTGAGTGGACGAATGAAGTCCATGGTCTACTGGGGCA
GCTTTTTATCACAAGTATTTAATTACCTGTATACCTACAAAATGCCTGGGGATATCAAGAACTGGGTAG
ATGCTCATATGAACTGTGAAGATATTGCCATGAACTTCTGTTGGCCAACGTACCGGAAAAGCAGTTAT
CAAGGTAACCCACGAAAGAAATTAAGTGTCTGAGTGCACAGCCATAGATGGGCTTCTACTAGACCAA
ACACACATGGTGGAGAGGTGAGAGTGCATCAACAAGTTTGCTTCAAGTCTTCCGGACCATGCCTCTCAAGG
TGGTGAACACCGAGCTGACCCTGTCTGTACAAAGATGACTTCTGAGAAGCTGAAGAGCTTCCCCAA
CATTGGCAGCTTATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000401 unedited GTCAGATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTGGCA GTGGCGCTGGCGATTTCGGACCGATCCGACCTGGGCGGAGGTGGCCCGCCCGCGGCA TGAGCCGGTGACCAAGCTGGGGGCCGAGCGGGAGGCAGCCGTGGCCGAGGAGTGTGAGGA AGAGGCTGTCTGTGCATTATGTGTGCGTCCGTCAAGTATAATATCCGGGGTCTGCCCT CATCCCAAGAATGAAGACCAAGCACCGAATCTACTATATCACCCCTTTCTCCATTGTCT CTGGGCTCATTGCCACTGGCATGTTTTAGTTTTGGCCCATCTATCGAGTCCCAAA TGACTGGAATGTAGAGAAGCGCAGCATCCGTGATGTGCCGTTGTTAGGCTGCCAGCCGA CAGTCCCATCCCAGAGCGGGGGATCTCAGTTGAGAATGCACACGTGTTTTGATGTCTA TCGCTGTGGCTTCAACCCAAAGAACAAAATCAAGGTGTATATCTATGCTCTGAAAAAGTA CGTGGATGACTTTGGCGTCTGTGTCAGCAACACCATCTNCCGGGAGTATAATGAACTGCT CATGGCCATCTCAGACAGTGACTACTACACTGATGACATCAAACCGGCCTGTCTGTTTGT TCCCTCCATCGATGTGCCTTACCCAGAACACACTGCGCATCAAAGAGACAGCACAAGCGA TGGCCAGCTCTTGTAGTGGGATCGAGGTACGAATCACCTGTTGGTCACATGTTGCCTGG AGGTCCCCAAAATTATACACAGCCCTTGGATGTTCCACAGACCGGTCCCCTGTTGGCTG GTGGCGGCTTTTCTACTTGGACTTACCCGCATGGTTCACATGTCACCATCCCTTGTAT ATCCACTGTCACCTGAAGGGATCTTTCCAAAATAGAACAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000401 unedited GCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAAGGAATAAAAAATAATTTAA TCATATCAAAAAGCCAAACCAAGAGGAATAGCTCATGGAAGTGCAGGATCCTGACTCA GCGGCTGGTGCTCTTCTGTGCACAAGCCAGCACTCCAGGTCCAAGGCATTTATCAA TCCCACCAAGATGTTTGGCTTTTGCACCGAATTCTGGGTTTGGTTCCTGAAAGAACTCA TTGATGTAATAACTAAAAGTGAGGTCTGGGTACCCTTTACATGATTCCCAGACCTCAA ATGGGCTAACACGCTTCTTCTCCAGCAGTCTTCTGTCCGTGAAGTTTCTTCCAGAT TGTTACATGGAAGTGAACAAAGGGAGCCTCAGCTGGATTTAAATCTGGAGCATGCCAC AAAGTCTTCCACTTGGCATTTTTCGAGAAGAACCATCAGAGATCATAAGAAATACAAGGA ACAGAGTTGCATAGCTCGAGGCGCTTGGATATCATTCTAGGTTCTTGTCTTGAGAAA GTGGGTTAGTGGGTGCATGCCAAGATCCAAGTAGTCAACCCTCCACCCTAACCTACTA CTCTGACATTAAGAGCTGGGAGGCCTTGTCTCTAGCTCTGACCCAGCCTCACATTCAG ACCTCCAACATAGACACGTTTCATAAGCCGCAATGTTGGGGCAACCTTCTCACCTTCTC AGGATAGCACTCTTTGACAAGGACAGGGTCAGCCCGGCGGTACCCCTTGAGAGGGCTG GGTCCCAAAACTGAAACAAACTGNTGTCGACCCTGACCTCCCCACCTGCGGGGTTGGCC TAACGAAGCCACCTTTGCCGGCCACTCAGACACTGGAACCTTCTCAGGGGCTACCTGGA TACCGCTCTCCCGGAGGTGGGCACCAGGATGTTCTGGCAATTCTTCCGGCCATAGAAA CTTCACACTCTTGATACCCAGCCTTCGCGGGATCAGAGATCAN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000401
Insert Size:	3090 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_000401.2 , NP_000392.2
RefSeq Size:	3804 bp
RefSeq ORF:	2196 bp
Locus ID:	2132
UniProt ID:	Q93063
Cytogenetics:	11p11.2
Domains:	Exostosin
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>