

## Product datasheet for **SC329099**

### EXT2 (NM\_001178083) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EXT2 (NM_001178083) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXT2
Synonyms:	SOTV; SSMS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001178083, the custom clone sequence may differ by one or more nucleotides

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ATGTGTGCGTCCGGTCAAGTATAATATCCGGGGTCTGCCCTCATCCCAAGAATGAAGACC
AAGCACCGAATCTACTATATCACCTCTTCTCCATTGCTCCTGGGCTCATTGCCACT
GGCATGTTTCAGTTTTGGCCCCATTCTATCGAGTCTCAAATGACTGGAATGTAGAGAAG
CGCAGCATCCGTGATGTCCGGTTGTTAGGCTGCCAGCCGACAGTCCCATCCCAGAGCGG
GGGGATCTCAGTTGCAGAATGCACACGTGTTTTGATGTCTATCGCTGTGGCTTCAACCCA
AAGAACA AAAATCAAGGTATATCTATGCTCTGAAAAAGTACGTGGATGACTTTGGCGTC
TCTGTCAGCAACACCATCTCCCGGGAGTATAATGAACTGCTCATGGCCATCTCAGACAGT
GACTACTACACTGATGACATCAACCGGGCTGTCTGTTTGTCCCTCCATCGATGTGCTT
AACCAGAACACACTGCGCATCAAGGAGACAGCACAAGCGATGGCCAGCTCTTAGGTGG
GATCGAGGTACGAATCACCTGTTGTTCAACATGTTGCCTGGAGGTCCCCAGATTATAAC
ACAGCCCTGGATGTCCCAGAGACAGGGCCCTGTTGGCTGGTGGCGGCTTTTCTACGTGG
ACTTACCGGCAAGGCTACGATGTCAGCATTCTGTCTATAGTCCACTGTCAGCTGAGGTG
GATCTTCCAGAGAAAGGACCAGGTCCACGGCAATACTTCTCCTGTCATCTCAGTGGGT
CTCCATCCTGAGTACAGAGAGGACCTAGAAGCCCTCCAGGTCAAACATGGAGAGTCAGTG
TTAGTACTCGATAAATGCACCAACCTCTCAGAGGGTGTCTTTCTGTCCGTAAGCGCTGC
CACAAGCACCAGGTCTTCGATTACCCACAGGTGTACAGGAGGCTACTTTCTGTGTGGTT
CTTCGTGGAGCTCGGCTGGGCCAGGCAGTATTGAGCGATGTGTTACAAGCTGGCTGTGTC
CCGGTTGTCTATTGCAGACTCCTATATTTTGCTTTCTCTGAAGTCTTGACTGGAAGAGA
GCATCTGTGGTTGTACCAGAAGAAAAGATGTCAGATGTGTACAGTATTTTGCAGAGCATC
CCCCAAAGACAGATTGAAGAAAATGCAGAGACAGCTCTTCATGGAACCAGCCAGGAGAGAG
AACTGGTCAGCTGCTAATCACCAATGAACTCCCTGATCTGGCCTAGGGAACAGTGGGAT
TCACAGATTATCAATGACCGGATCTATCCATATGCTGCCATCTCCTATGAAGAATGGAAT
GACCCTCTGCTGTGAAGTGGGGCAGCGTGAGCAATCCACTCTTCTCCCGCTGATCCCA
CCACAGTCTCAAGGGTTCACCGCCATAGTCTCACCTACGACCGAGTAGAGAGCCTCTTC
CGGGTCTCACTGAAGTGTCCAAGGTGCCAGTCTATCCAACTACTTGTGCTGGAAT
AATCAGAATAAAAACCTCCAGAAGATTCTCTGCCCCAAAATCCGGGTTCCATTA AAA
GTTGTGAGGACTGCTGAAAACAAGTTAAGTAACCGTTTCTTCCCTATGATGAAATCGAG
ACAGAAGCTGTTCTGGCCATTGATGATGATATCATTATGCTGACCTCTGACGAGTGCAA
TTTGGTTATGAGGTCTGGCGGAAATTTCTGACCGGTTGGTGGGTTACCCGGGTCGTCTG
CATCTCTGGGACCATGAGATGAATAAGTGAAGTATGAGTCTGAGTGGACGAATGAAGTG
TCCATGGTGCTCACTGGGGCAGCTTTTTATCACAAGTATTTTAATTACCTGTATACCTAC
AAAATGCCTGGGGATATCAAGAACTGGGTAGATGCTCATATGAACTGTGAAGATATTGCC
ATGAACTTCTGGTGGCCAACGTCACGGGAAAAGCAGTTATCAAGGTAACCCACGAAAAG
AAATTCAGTGTCTGAGTGCACAGCCATAGATGGGCTTCACTAGACCAAAACACACATG
GTGGAGAGGTCAGAGTGCATCAACAAGTTTGCTTCACTTCCGGGACCATGCCTCTCAAG
GTGGTGGAAACCCGAGCTGACCTGTCTGTACAAAGATGACTTCTGAGAAGCTGAAG
AGCTTCCCAACATTGGCAGCTTATGA
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_001178083

**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:** 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001178083.1, NP_001171554.1</u>
<b>RefSeq Size:</b>	3678 bp
<b>RefSeq ORF:</b>	2187 bp
<b>Locus ID:</b>	2132
<b>UniProt ID:</b>	<u>Q93063</u>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Heparan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	<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 (3) has multiple differences, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 3) is shorter than isoform 1.</p>