

## Product datasheet for **SC117367**

### EXTL1 (NM\_004455) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EXTL1 (NM_004455) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXTL1
Synonyms:	EXTL
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\_004455, the custom clone sequence may differ by one or more nucleotides

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ATGCAGTCGTGGAGGAGAAGAAAGTCCCTGTGGCTGGCACTGTCAGCCTCCTGGCTCCTGCTTGTCTGCTGC
TGGGAGGCTTCTCCCTTCTCCGCTGGCATTGCCTCCCAGACCTCGGCCCGGGCTTCCCAAGGCTGGCC
CCGCTGGCTGGATGCAGAGCTCCTGCAGAGCTTCTCCAGCCTGGAGAGCTCCAGAAGATGCCGTTTCA
CCTCCTCAAGCCCTCATGGTGGCAGCTGCAACTGGGAATCTTGCTTTGATACCTCAAAGTGCAGGGGCG
ATGGCCTTAAGGTATTCGTGTACCCAGCGGTTGGAACCATCTCTGAGACTCATCGCAGGATCCTGGCTTC
CATTGAGGGCTCTCGCTTCTACACATTAGCCCTGCTGGGGCCTGCCTCCTCCTCCTCAGCCTGGAC
GCCCAGACTGGAGAGTGCAGCTCAATGCCTCTGCAATGGAACAGGGGCAGGAACCATCTGGTCTCCGTC
TCCACCCGGCTCCCTGCCCAGGACCTTCCAGCTGGGACAGGCTATGGTGGCTGAGGCCAGCCCCACGGT
GGACTCCTTCCGGCCCGGCTTTGATGTGGCCCTCCCTTTCTCCCTGAAGCCACCCGTTGCGAGGTGGG
GCTCCTGGCCAGCTGCGGCAACACAGCCCCAGCCCGGGTAGCCCTGCTAGCCCTGGAAGAGGAGAGGG
GTGGGTGGCGCACAGCAGACTGGCTCCTCTGCCTGCCCTGGGATGGGCGCTGTGAGCAAGACCTGG
ACCTGGGCAGACCCAGCGCCAGGAGACGCTGCCAATGCCACCTTCTGCCTCATCTCTGGCCACCGTCCC
GAGGCTGCCTCGCGCTTCTCCAAGCCCTGCAGGCCGGCTGCATCCCAGTGTCTCTAGCCCCCGTGGG
AGCTGCCCTTCTCCGAGGTATCGACTGGACCAAGGCAGCCATCGTAGCTGATGAGAGGCTCCCCTTCA
GGTCTGGCTGCCCTCCAGGAGATGTCCCTGCACGGGTCTCGCCCTGCGTCAGCAGACCCAGTTTCTA
TGGGATGCCTACTTCTCCTCAGTGGAGAAGGTCATCCATACCACTCTGGAGGTTATTTCAGGACCGGATTT
TTGGAACATCAGCTCACCCCTCACTGCTGTGGAACAGCCCCCAGGGGCACTCCTGGCCCTGTCTACTTT
TTCCACAAGCCCCAGGACTTCCCCTTCTACTACCTGCAACAGGGCTCCCGCCCTGAGGGCAGATTCAGC
GCCCTGATCTGGGTGGGGCCCCAGGCCAGCCCCCTCTGAAGTCTATCCAGGCGGTGGCAGGCTCCCAGC
ACTGTGCCCAGATCTTGTTCTCTGGAGCAATGAGAGGCCACTCCCATCCAGGTGGCCGGAGACAGCTGT
GCCCTTGACAGTCATTGATGGGCACAGGAAGGTTAGTGATCGCTTCTACCCATATAGCACCATCAGAACA
GATGCCATCCTCAGCCTCGATGCCCGCAGCAGTCTTCCACAAGTGAAGTGGACTTTGCCTTTCTGGTGT
GGCAGAGCTTCCAGAGCGGATGGTGGGCTTCTGACGTGAGCCATTTCTGGGACGAGGCCATGGTGG
CTGGGGCTACTGCTGAGAGGACCAACGAATTCTCCATGGTTCTCACCACAGCCGCTTCTACCATAGG
TATTACCACACTCTTTCACCCACTCCCTGCCAAGGCTCTGAGGACCCTGGCAGATGAGGCACCCACCT
GTGTGGACGTCTGATGAATTTATAGTAGCAGCAGTACCAAGCTGCCCTATCAAGGTGCCCTATGG
CAAGCAGCGCCAGGAGGCTGCTCCACTGGCGCCTGGGGGCCCGGGGCCAGGCCAAAGCCGCTGCCCA
GCCCCGACTGCATCAACCAGATAGCGGCAGCGTTTCGGCCACATGCCCTTGTGTCTCTCGTCTGCGTC
TGGACCCGGTGTGTTAAGGACCCGGTGTCCGTGCAGCGCAAGAAGTACCCGAGCCTGGAGAAGCCCTA
G
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004455 unedited  
 AAGCCACTTCGCACGAGGGGGCTTGGTACAGCGGCCCTGGCCTCTGCACTGTGATAGCTC  
 CAATCCAGATGGTGAAGGCAGCTGCTGGGCTGCGGGGAAGAGGGGCTGCACTTCCTGAG  
 CTGGTGCAGCGGCAGAGTGGATAAAGGATCAGGACCCGAGCCCTCTGGCCCTCCGTCG  
 TTGGGACACCGGCTGCACTCATGCTGTGACCTCAGCTGACGCCGATGATCCACATGGGAT  
 GCAGGGTCTAATTTTAGCTCCAGCCACAGGGGCCACAGCCATAAGCGTCTGCCAGCGGG  
 CACAGGGGCAGCCAGGGCTGCTCATGCAAGGGGAGGAGTGGGAAGACCAGCCAGCTCCC  
 TCCAGCCTGTCCCTGGCCAAGCCGCTCCTGTGGGAGCTCTGACTGGTCCCATGGCCTG  
 GCAGACAGCCCTCCTCTAGTTGAGGGCAAGGTAAGGGGTGCAGCCAGGATGGCAGGGG  
 GACACGGCCCTGCATTCTGGACAGGGGTGCGTCAGCCAGAGCAGTGCCCATGGGAGGG  
 GTCCCTGCTGGGAGGGAAAAGGCTGGCTTGGTTGTCCAAAGGCCGAGAAGGCAGAGTCTT  
 GAGAGCAGGGGGCCAGGCCATGCAGCTGGGTCCCACCTGGCCTCCTCTGCCTGGCTGG  
 TGACTCACTATCTGACCCTAGACAGGCGGCCCTGGTCTCGATGGGCTCAGTCTTCCCAT  
 CTGTACAATGACAGCACAGGACTAGCAGGTCGGTCCCAGCTCTGGTCTCCCGCCCAAGC  
 CCTGCTCTTCTGCTTGTGGCAGAGGCCTCCCAGTCTTCTAGCCCTGACTGTGGGTGG  
 GCCTTGACAGTCGGGGAGAAAAGAAAGTCTGGGGCTGCACTGTCANCTCCGGCTCCTGT  
 TTGTCTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004455 unedited  
 TACTTGNCCGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTGGAGGGGCAAG  
 GACACGCGCTTTATCTTCGGAGTGATAATTCCAGCTCCAGGTGGTGAACCCCGGAGGAC  
 CTAGTGTCCCCCCTCACTCCATTCTCACCTATACCGCTCGGGACAGTCCCTGCTCGCGC  
 CCAGCCACCTAGAAACAGTCCCTTCTTGTGAGTTCCAAGTGTGCAGGGCAAAGAGATG  
 GGGCTGTTCTTTCAGATTTCTTCTCCAGCTTTCAGCCCCGAGCTGCCACAGCGCTCAC  
 CCTCCACATCCCGGCCGCCCTCTGGACATGCGGGTGAAGAGTGCAGGCGGACGCTGACCT  
 CTAGTGGTCGGCCTTGGTAGTGCAGGGCAGACGGCCGAGGCTGAGCCGCGGGCCGTGCGG  
 GGACAGGCCACTTGTTCATCCCGCTTCTCGCCCCACTCCTCGTTTACCCGCACCCC  
 TCTGCTCCTTGGTTGAGGCTCAAGGATTGAGCCTGACAACCCAGGCGTCTTTGGGTAGTT  
 GCCTTCCCGGACTAGGAACCCTANGAATGGGTGGCGGGTGGGGCGGGACAGTTCTGT  
 CTCTCCGCTCACCTGTCCCGCCGCCCTCATAGGGCCAGGCACGCAGTTAATGTCTG  
 CCATCCATCTATTTCGTCAAATATTTGCGGCACACCTGCCTAGCCAGAGAGAAAAGGACAC  
 GACACGACCCGCCCCCGGGGCTCGCAAGCCATTCTGGGCCCTGACCGTGGCGGAAACC  
 GCGGAAACACTGGGCTGCGAAAGCGCAAAGAGACCCGACCCATTGGGGCCGAAGGGGG  
 AAGAGGCCAGCCAGTCCCTGAAGGAAAAATGCTGAAAAACACCAAAATTTACCTGGG  
 TGGAAACCGAAACGGGCTCGTTCGGGGGCTAACCCCAAAGCTCCCGGTTGAGGCGC  
 ACCGN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004455

**Insert Size:**

4310 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).

<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>	<a href="#">NM_004455.1</a> , <a href="#">NP_004446.1</a>
<b>RefSeq Size:</b>	4021 bp
<b>RefSeq ORF:</b>	2031 bp
<b>Locus ID:</b>	2134
<b>UniProt ID:</b>	<a href="#">Q92935</a>
<b>Cytogenetics:</b>	1p36.11
<b>Domains:</b>	Exostosin
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Heparan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	This gene is a member of the multiple exostoses (EXT) family of glycosyltransferases, which function in the chain polymerization of heparan sulfate and heparin. The encoded protein harbors alpha 1,4- N-acetylglucosaminyltransferase activity, and is involved in chain elongation of heparan sulfate and possibly heparin. [provided by RefSeq, Jul 2008]