

## Product datasheet for **SC120098**

### EXT1 (NM\_000127) Human Untagged Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | EXT1 (NM_000127) Human Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | EXT1                                  |
| Synonyms:                 | EXT; LGCR; LGS; TRPS2; TTV            |
| 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: >OriGene ORF within SC120098 sequence for NM\_000127 edited (data generated by NextGen Sequencing)

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ATGCAGGCCAAAAACGCTATTTTCATCCTGCTCTCAGCTGGCTCTTGTCTCGCCCTTTTG
TTTTATTTTCGGAGGCTTGCAGTTTAGGGCATCGAGGAGCCACAGCCGGAGAGAAGAACAC
AGCGGTAGGAATGGCTTGACCACCCAGTCCGGATCATTCTGGCCCGCTTCCCGGAC
GCTCTGCGCCCTTCGTTCCCTGGGATCAATTGAAAAACGAGGATTCCAGCGTGCACATT
TCCCCCGGCAGAAGCGAGATGCCAACTCCAGCATCTACAAAGGCAAGAAGTGCCGCATG
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CAGCAAAAAGGGGAGAAAATCGCCGAAAGTTACAAAACATTCTAGCGGCCATCGAGGGC
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CATCCCAGGACAGGAGGGGAGAGGGGTTTTTGAAGTTCAACACCATCCCTCCTCTCAGG
AAGTACATGCTGGTATTCAAGGGGAAGAGGTACCTGACAGGGATAGGATCAGACACCAGG
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ACAGGAGCTGCTATTTACCACAAATATTATCACTACCTATACTCCCATTACCTGCCAGCC
AGCCTGAAGAATGTTGGACCAATTGGCCAAATTGTGAGGACATTCTCATGAACTTCTG
GTGCTGCTGTGACAAAATTGCCTCCAATCAAAGTGACCCAGAAGAAGCAGTATAAGGAG
ACAATGATGGGACAGACTTCTCGGGCTTCCCGTTGGGCTGACCCCTGACCACTTTGCCAG
CGACAGAGCTGCATGAATACGTTTGCAGCTGGTTTGGCTACATGCCGCTGATCCACTCT
CAGATGAGGCTCGACCCCGTCTCTTTAAAGACCAGGTCTCTATTTTGGAGGAAGAATAAC
CGAGACATTGAGCGACTTTGA
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Clone variation with respect to NM\_000127.2  
1065 c=>t

|                                     |  |
|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_000127 unedited</p> <pre>GGGTcannatTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCACTAGCC GGCTGAACCCGGGATCGGCTGACTTGTGGAAACCGGAGTGCTCTGCACGGAGAGTGGTGG ATGAGTTGAAGTTGCCTTCCCGGGGCTCATTTCCACGCTGCCGAGAGGAATCCGAGAGG CAAGGCAATCACTTCGTCTTGCCATTGATTGGGTATCGGGAGCTTTTTTTTCTCCTCTC TCTCTTTCTTTCTCCTCCGTCTTGTTCATGCAAGAAAATTACAGTCCGCTGCTCGCCCGC CCTGGGTGCGAGATATTCAGCCCCGCTCTCCCGTGCATTGTGCAACCCAAAGATGAAA GACCGAAGGGGAGAAAAGTTAAAGAAATCGCCACATGCGCTGGATCAGTCCACGGCTTGG GGAAAGGCATCCAGAGAAGTGGGAGCGGAGAGTTTGAAGCTTTACAGGCGGGAAGATG GCGGACTGGAGCTGAAAGTGTGATTGGGAAACTTGGGTATTCTGTGTTTATTACAA TCCTCTTGACCCAGGCAGGACACATGCAGGCCAAAAACGCTATTTATCCTGCTCTCAG CTGGCTCTGTCTCGCCCTTTTGTTTATTTTCGGAGGCTTGCAGTTTAAGGCATCGAGGA GCCACAGCCGGAGAGAAGAACACAGCGGTAGGAATGGCTTGACCACCCAGTCCGGATC ATTTCTGGCCCCGCTTCCCGACGCTCTCGCCCCCTTCGTTCTTGGGATCAATTGGAAA ACGAGGATTCCAGCGTGCACATTTCCCCCGGCGAGAAGCGAGATGCCAACTCCAGCATCT ACAAAGGGCAGAAGTGCCGCATGGAGTCTGCTTCGATTTACCTTTTGCAGAAANNACG CTCAAGTCTACGTATACCCACAGCAAAGGGGAAG</pre>       |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_000127 unedited</p> <pre>NNGGTCNTGNCCCGGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAA CCCCCAATGAAAAACGATTATCATATATATCTATCTCAAACATAGAGATTTTCAGTTAG AACTGCCTACCTGGAAGTCGTAATACTTTCTTTTCATGCAGCGACATTTTAGAGATAAAG TTCAAGTGGATTGAAGATTCGAAGTGGAAAACAATTTGCACTGGCAAAGTTGAATAATG AAGTTACAACTTATGCTCAGTATTTCTTGATAATGGGTAGAGTGACTTATTGTGTTTTT CACGAAGTTTGAGCTTTTGAACTGCAGGGCACCTACATGGCCATGACAATGATGTCTG TGGGAAAAGGAATAGCAGCTTTGAAATATTACAACCAACACAATTTTGATTAACAAAG AACTCTGGTTTTTAATAGTTTTGATCATTAAAAAGTTTTAAACCTGCATAGCAATCATT CAAAAAAATTAATTAATGTTCCATAATTAACGTACACAACCTAGTCTTGGGACACAG AAGCCAGTGAGGTGAGTTTGGAGCAGTCTGGTGCAGTCCCAGGAGCCAGGAGTTGAGTTC TCATTGGCCTTTTTTTTTTTGTCTATTCTGCTCATCTAAGTTTTTTGGATAGTTGGACAAT CTGGCTCTGCTGATGAGTGGATCTGCACTGGGAAGAGAGAGCAGCTTGACCCCCATCCCT TCTTGCTTTCCCTCCCCACTCAGCCGGATCCTCAAGTCGCTCAATGTCTCGGTATTTCTT CCTCAAATANAACCTGGTCTTAAAGAGGACCGGGGCGAGCCTTATCTGAAATGGATCAGC GGCTGTACCCAACAGCTGGCAACGTTTTATGCAACTTGGCCCTGGGCAAGGGCCAGGGT CANCCACGGGAACCCGAAAGCTGTCCATCTTG</pre> |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_000127  |
| <b>Insert Size:</b>                 | 3460 bp  |
| <b>OTI Disclaimer:</b>              | 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).   |
| <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>                | <a href="#">NM_000127.2</a> , <a href="#">NP_000118.2</a>   |
| <b>RefSeq Size:</b>           | 3376 bp   |
| <b>RefSeq ORF:</b>            | 2241 bp   |
| <b>Locus ID:</b>              | 2131  |
| <b>UniProt ID:</b>            | <a href="#">Q16394</a>  |
| <b>Cytogenetics:</b>          | 8q24.11   |
| <b>Domains:</b>               | Exostosin   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Protein Pathways:</b>      | Heparan sulfate biosynthesis, Metabolic pathways  |
| <b>Gene Summary:</b>          | This gene encodes an endoplasmic reticulum-resident type II transmembrane glycosyltransferase involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type I form of multiple exostoses. [provided by RefSeq, Jul 2008]   |