

Product datasheet for **SC320682**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000127.2
 CGCTGGATCAGTCCACGGCTTGGGGAAAGGCATCCAGAGAAGGTGGGAGCGGAGAGTTTG
 AAGTCTTTACAGGCGGGAAGATGGCGGACTGGAGCTGAAAGTGTGATTGGGAACTTGG
 GTGATTCTTGTGTTTATTTACAATCCTCTTGACCCAGGCAGGACACATGCAGGCCAAAA
 ACGCTATTTATCCTGCTCTCAGCTGGCTTGTCTCGCCCTTTTGTTTATTTCCGGAGG
 CTTGCAGTTTAGGGCATCGAGGAGCCACAGCCGGAGAGAAGAACAACAGCGGTAGGAATGG
 CTTGCACACCCAGTCCGGATCATTTCTGGCCCGCTTCCCGGACGCTCTGCGCCCTT
 CGTTCCTTGGGATCAATTGGAAAACGAGGATTCCAGCGTGCACATTTCCCCCGGCAGAA
 GCGAGATGCCAACTCCAGCATCTACAAAGCAAGAAGTGCCGCATGGAGTCTGCTTCGA
 TTTACCCTTTGCAAGAAAAACGGCTTCAAAGTCTACGTATACCCACAGCAAAAAGGGGA
 GAAATCGCCGAAAGTTACAAAACATTCTAGCGGCCATCGAGGGCTCCAGGTTCTACAC
 CTCGGACCCAGCCAGGCGTGCCTCTTTGTCTGAGTCTGGATACTTTAGACAGAGACCA
 GTTGTACCTCAGTATGTGCACAATTTGAGATCCAAAGTGCAGAGTCTCCACTTGTGGAA
 CAATGGTAGGAATCATTTAATTTTAAATTTATATTCCGGCACTTGGCCTGACTACACCGA
 GGACGTGGGGTTTACATCGGCCAGGCGATGCTGGCCAAAGCCAGCATCAGTACTGAAAA
 CTTCCGACCCAACCTTTGATGTTTCTATTCCCTCTTTTCTAAGGATCATCCAGGACAGG
 AGGGGAGAGGGGGTTTTTGAAGTTCAACACCATCCCTCCTCTCAGGAAGTACATGCTGGT
 ATTCAGGGGAAGAGGTACCTGACAGGGATAGGATCAGACACCAGGAATGCCTTATATCA
 CGTCCATAACGGGGAGGACGTTGTGCTCCTCACCACCTGCAAGCATGGCAAAGACTGGCA
 AAAGCACAAGGATTCTCGCTGTGACAGAGACAACCCAGATGAGAAGTATGATTATCG
 GGAAATGCTGCACAATGCCACTTCTGTCTGGTTCCTCGTGGTGCAGGCTTGGGTCCTT
 CAGATTCCTGGAGGCTTGCAGGCTGCCTGCCTCCCTGTGATGCTCAGCAATGGATGGGA
 GTTGCCATTCCTGAAGTATTAATTGGAACCAAGCTGCCGTATAGGCGATGAGAGATT
 GTTATTACAGATTCCTTACAATCAGGTCTATTATCAGGATAAAATCCTAGCACTTAG
 ACAGCAGACACAATTCCTGTGGGAGGCTTATTTTCTTCAGTTGAGAAGATTGTATTAAC
 TACACTAGAGATTATTCAGGACAGAATATTCAAGCACATATCACGTAACAGTTTAAATATG
 GAACAAACATCCTGGAGGATTGTTCTGACTACCACAGTATTATCTTATCTGGGAGATT
 TCCTTACTACTATGCTAATTTAGGTTTAAAGCCCCCTCCAAATCACTGCAGTCATCCA
 TGCGGTGACCCCCCTGGTCTCTCAGTCCCAGCCAGTGTGAAGCTTCTCGTGGCTGCAGC
 CAAGTCCCAGTACTGTGCCAGATCATAGTTCTATGGAATTGTGACAAGCCCTACCAGC
 CAAACACCGCTGGCCTGCCACTGCTGTGCCTGTGCTCGTATTGAAGGAGAGAGCAAGGT
 TATGAGCAGCCGTTTTCTGCCCTACGACAACATCATCACAGACCCGTGCTCAGCCTTGA
 CGAGGACACGGTCTTTCAACAACAGAGGTGGATTTCCGCTTACAGTGTGGCAGAGCTT
 CCCTGAGAGGATTGTGGGGTACCCCGCGCGCAGCCACTTCTGGGATAACTCTAAGGAGCG
 GTGGGGATACACATCAAAGTGGACGAACGACTACTCCATGGTGTGACAGGAGCTGCTAT
 TTACCACAAATATTACTACTATACTCCCATTACCTGCCAGCCAGCCTGAAGAACAT
 GGTGGACCAATTGGCCAATTGTGAGGACATTCTCATGAACTTCTGGTGTCTGCTGTGAC
 AAAATTGCCTCCAATCAAAGTGACCCAGAAGAAGCAGTATAAGGAGACAATGATGGGACA
 GACTTCTCGGGCTTCCCCTTGGGCTGACCCTGACCCTTTGCCAGCGACAGAGCTGCAT
 GAATACGTTTGCCAGCTGGTTTGGCTACATGCCGCTGATCCACTCAGATGAGGCTCGA
 CCCCCTCCTTTTAAAGACCAGGTCTCTATTTTGAAGAAATACCGAGACATTGAGCG
 ACTTTGAGGAATCCGGCTGAGTGGGGGAGGGGAAGCAAGAAGGGATGGGGTCAAGCTGC
 TCTCTTCCCAGTGCAGATCCACTCATCAGCAGAGCCAGATTGTGCCAACTATCCAAAA
 ACTTAGATGAGCAGAATGACAAAAAAGGCAATGAGAACTCAACTCCTGGCTCCT
 GGGACTGCACCAGACTGCTCCAACTCACCTACTGGCTTCTGTGTCCCAAGACTAGGTT
 GTGTACAGTTAATTATGAAACATTAATAATTATTTTGAATGATTGCTATGCAGGTT
 TAAACTTTTTAATGATCAAACTATTAATAAACAGAGTCTTTGTTAATCAAAAAA
 AAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000127

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.
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_000127.2 , NP_000118.2
RefSeq Size:	3376 bp
RefSeq ORF:	2241 bp
Locus ID:	2131
UniProt ID:	Q16394
Cytogenetics:	8q24.11
Domains:	Exostosin
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	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]