

## Product datasheet for **SC302675**

### EXTL2 (NM\_001033025) Human Untagged Clone

#### Product data:

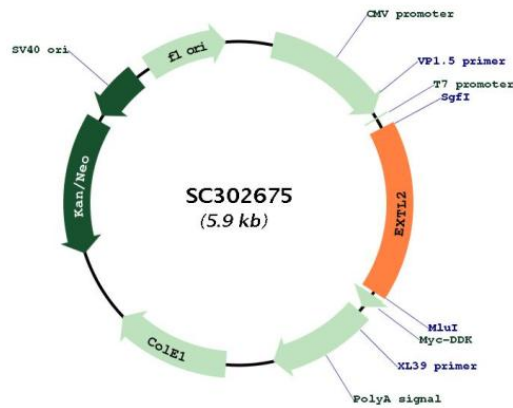
Product Type:	Expression Plasmids
Product Name:	EXTL2 (NM_001033025) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXTL2
Synonyms:	EXTR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302675 representing NM_001033025. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGTGTTGCCACATCTGCAAACCTCTGGGAGAGTAATGGGGATTTCGAGTGCCTCGATTATCTTTG
GTGGTCATCCTCGTATTACTGGTAGCTGGTCTTTGACTGCCTTACTCCCAGTGTTAAAGAAGAC
AAGATGCTCATGTTGCGTAGGAAATAAAATCCCAGGGCAAGTCCACCATGGACTCCTTACTCTCATA
ATGCAGACGTACAACAGAACAGATCTCTATTGAAACTTTTAAATCATTATCAGGCTGTACCAAATCTG
CACAAAGTGATTGGTATGGAACAATATTGGAGAGAAGGCACCAGATGAATTATGGAATCTCTAGGG
CCCCACCCTATCCCTGTGATCTTCAAACAACAGACAGCAAACAGGATGAGAAATCGACTCCAGGTCTTT
CCTGAACTGGAAACCAATGCAGTGTGATGGTAGATGATGACACACTCATCAGCACCCAGACCTTGT
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ACTTCATCAGGTATCTACAGTTATGGAAGTTTTGAAATGCAAGCACAGGGTCTGGAAATGGTGACCAG
TACTCTATGGTGTGATTGGAGCCTCATTTCTCAATAGCAAATATCTTGAATTTTTCAGAGGCAACCT
GCAGCTGTCCATGCTTTGATAGATGATACTCAAACCTGTGATGATATTGCCATGAATTTTATCATTGCC
AAGCATATTGGCAAGACTTCAGGGATATTTGTGAAGCCTGTAACATGGACAATTTGAAAAAGAAACC
AACAGTGGCTATTCTGGAATGTGGCATCGAGCTGAGCACGCTCTGCAGAGGTCTTATTGTATAAATAAG
CTTGTTAATATCTATGATAGCATGCCCTAAGATACTCCAACATTATGATTTCCAGTTTGGTTTTCCA
TATGCCAACTACAAAAGAAAAATATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001033025

**Insert Size:** 993 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).

**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:**

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\\_001033025.2](#)

**RefSeq Size:** 3181 bp

**RefSeq ORF:** 993 bp

**Locus ID:** 2135

**UniProt ID:** [Q9UBQ6](#)  
**Cytogenetics:** 1p21.2  
**Protein Families:** Transmembrane  
**Protein Pathways:** Heparan sulfate biosynthesis  
**MW:** 37.5 kDa

**Gene Summary:** Glycosyltransferase required for the biosynthesis of heparan-sulfate and responsible for the alternating addition of beta-1-4-linked glucuronic acid (GlcA) and alpha-1-4-linked N-acetylglucosamine (GlcNAc) units to nascent heparan sulfate chains.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.