

## Product datasheet for **RC232494**

### EXTL2 (NM\_001261440) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EXTL2 (NM\_001261440) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** EXTL2  
**Synonyms:** EXTR2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232494 representing NM\_001261440  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGGTGTTGCCACATCTGCAAACCTCCTGGGAGAGTAATGGGGATTGAGTGCCTTCGATTATCTTTGG  
TGGTCATCCTCGTATTACTGGTAGCTGGTCTTTGACTGCCTTACTCCCAGTGTTAAAGAAGACAA  
GATGCTCATGTTGCGTAGGGAAATAAAATCCCAGGGCAAGTCCACCATGGACTCCTTTACTCTCATAATG  
CAGACGTACAACAGAACAGATCTCTTATTGAACTTTTAAATCATTATCAGGCTGTACCAATCTGCACA  
AAGTGATTGTTGATGGAACAATATTGGAGAGAAGGCACCAAGATGAATTATGGAATTCCTAGGGCCCCA  
CCCTATCCCTGTGATCTTCAAACAACAGACAGCAAACAGGATGAGAAATCGACTCCAGGTCTTTCCTGAA  
CTGGAAACCAATGTGTTGATGGTAGATGATGACACACTCATCAGCACCCAGACCTTGTTTTGCTTTCT  
CAGTTTGGCAGCAATTCCTGATCAAATGTAGGATTTGTTCTAGAAAGCACGTCTCTACTTCATCAGG  
TATCTACAGTTATGGAAGTTTTGAAATGCAAGCACCCAGGGTCTGGAAATGGTGACCAGTACTCTATGGTG  
CTGATTGGAGCCTCATTCTTCAATAGCAAATATCTTGAATTTTCAGAGGCAACCTGCAGCTGTCCATG  
CTTTGATAGATGATACTCAAACCTGTGATGATTTGCCATGAATTTTATCATTGCCAAGCATATTGGCAA  
GACTTCAGGGATATTTGTGAAGCCTGTAACATGGACAATTTGGAAAAAGAAACCAACAGTGGCTATTCT  
GGAATGTGGCATCGAGCTGAGCACGCTCTGCAGAGGTCTTATTGTATAAATAAGCTTGTTAATATCTATG  
ATAGCATGCCCTTAAGATACTCCAACATTATGATTTCCAGTTTGGTTTTCCATATGCCAACTACAAAAG  
AAAAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232494 representing NM\_001261440  
Red=Cloning site Green=Tags(s)

MRCCHICKLPGRVMGIRVLRSLVVLVLLLVAGALTALLPSVKEDKMLMLRREIKSQGKSTMDSFTLIM  
 QTYNRTDLLKLLLNHYQAVPNLHKVIVVWNNIGEKAPDELWNSLGPPIPVIKQQTANRMRNLQVFPE  
 LETNVLVDDDTLSTPDLVFAFSVWQQFPDQIVGFVPRKHVSTSSGIYSYGSFEMQAPGSGNGDQYSMV  
 LIGASFFNSKYLELFRQPPAAVHALIDDTQNCDDIAMNFIIAKHIGKTSGIFVKPVMNDNLEKETNSGYS  
 GMWHRAEHALQRSYCINKLVNIYDSMPLRYSNIMISQFGFPYANYKRKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

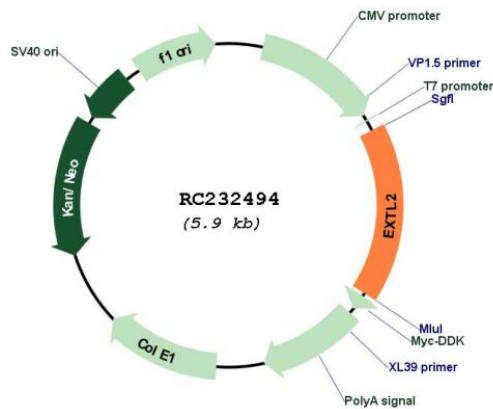
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001261440

**ORF Size:** 987 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001261440.1</a> , <a href="#">NP_001248369.1</a>
<b>RefSeq Size:</b>	3178 bp
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	2135
<b>Cytogenetics:</b>	1p21.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Heparan sulfate biosynthesis
<b>MW:</b>	37.8 kDa
<b>Gene Summary:</b>	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]