

## Product datasheet for **RC236054**

### EXTL2 (NM\_001261442) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EXTL2 (NM\_001261442) 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:** >RC236054 representing NM\_001261442  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGAGGTGTTGCCACATCTGCAA**CTTCTCTGGGAGAGTAATGGGGATT**CGAGT**GCTTCGATTATCTTTGG  
TGGTCATCCTCGTATTACTGGTAGCTGGTCTTTGACTGCCTTACTTCCAGTGTTAAAGAAGACAA  
GATGCTCATGTTGCGTAGGGAAATAAAATCCAGGGCAAGTCCACCATGGACTCCTTTACTCTCATAATG  
CAGACGTACAACAGAACAGATCTCTTATTGAACTTTTAAATCATTATCAGGCTGTACCAATCTGCACA  
AAGTGATTGTGGTATGGAACAATATTGGAGAGAAGGCACCAAGATGAATTATGGAATTCTCTAGGGCCCCA  
CCCTATCCCTGTGATCTTCAAACAACAGACAGCAAACAGGATGAGAAATCGACTCCAGGTCTTCTCTGAA  
CTGGAAACCAATGCAATTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236054 representing NM\_001261442  
**Red**=Cloning site **Green**=Tags(s)

MRCCHICKLPGRVMGIRVLRSLVILVLLLVAGALTALLPSVKEDKMLMLRREIKSQGKSTMDSFTLIM  
QTYNRTDLLLKLNNHYQAVPNLHKVIVVWNNIGEKAPDELWNSLGPPIPVIKQQTANMRMRNLQVPE  
LETNAIS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

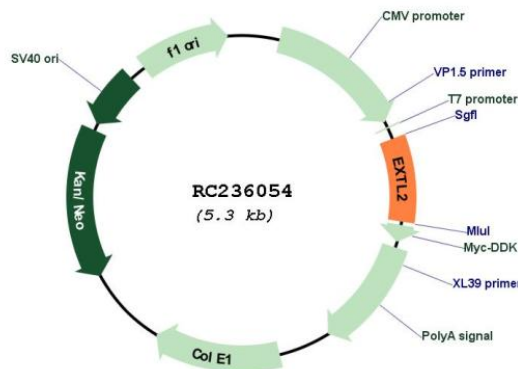


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001261442

ORF Size: 441 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: 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>	<u>NM_001261442.1, NP_001248371.1</u>
<b>RefSeq Size:</b>	3146 bp
<b>RefSeq ORF:</b>	444 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>	17.2 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]