

## Product datasheet for **RG237557**

### EXTL2 (NM\_001261441) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EXTL2 (NM_001261441) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EXTL2
Synonyms:	EXTR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237557 representing NM_001261441. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGAGAACCTGGAACAGTGGTGGCACAAGTGTGCCACATCTGCAAACTTCTGGGAGAGTAATGGGG
ATTCGAGTGCTTCGATTATCTTTGGTGGTCATCCTCGTATTACTGGTAGCTGGTGCTTTGACTGCC
TTACTTCCAGTGTTAAAGAAGACAAGATGCTCATGTTGCGTAGGGAAAATAAAATCCCAGGGCAAGTCC
ACCATGGACTCCTTACTCTCATAATGCAGACGTACAACAGAACAGATCTTTATTGAACTTTTAAAT
CATTATCAGGCTGTACCAATCTGCACAAAGTATTGTGGTATGGAACAATATTGGAGAGAAGGCACCA
GATGAATTATGGAATTCTTAGGGCCCCACCCTATCCCTGTGATCTTCAAACAACAGACAGCAAACAGG
ATGAGAAATCGACTCCAGGTCTTTCCTGAACTGGAACCAATGCAGTGTTGATGGTAGATGATGACACA
CTCATCAGCACCCAGACCTGTTTTTGTCTTCTCAGTTTGGCAGCAATTTCTGATCAAATTTGAGGA
TTTGTTCCTAGAAAGCACGTCTCTACTTCATCAGGTATCTACAGTTATGGAAGTTTTGAAATGCAAGCA
CCAGGGTCTGGAATGGTGACCAGTACTCTATGGTGTGATTGGAGCCTCATTCTCAATAGCAAATAT
CTTGAATTATTTAGAGGCAACCTGCAGCTGCCATGCTTTGATAGATGATACTCAAACCTGTGATGAT
ATTGCCATGAATTTTATCATTGCCAAGCATATTGGCAAGACTTCAGGGATATTTGTGAAGCCTGTAAC
ATGGACAATTTGAAAAAGAAACCAACAGTGGCTATTCTGGAATGTGGCATCGAGCTGAGCACGCTCTG
CAGAGGCTTATTGTATAAATAAGCTTGTAAATATCTATGATGCATGCCCTTAAGATACTCCAACATT
ATGATTTCCAGTTTGGTTTTCCATATGCCAACTACAAAAGAAAAATA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237557  
 Blue=ORF Red=Cloning site Green=Tag(s)

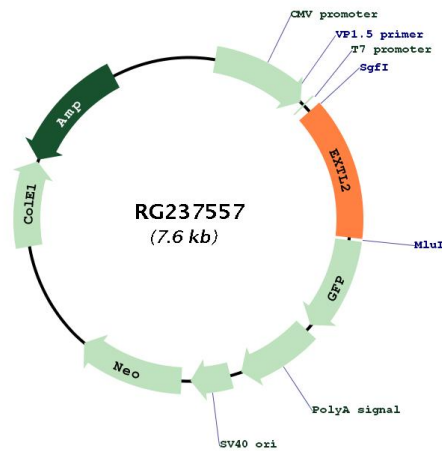
MRTWNSGGTKCCHICKLPGRVMGIRVLRSLVVLVLLLVAGALTALLPSVKEDKMLMLRREIKSQGKS  
 TMSFSLIMQTYNRTDLLKLLNHYQAVPNLHKVIVVWNNIGEKAPDELWNSLGPHPIPVIKQQTANR  
 MRNRLQVFELETNAVLMVDDDTLISTPDLVFAFSVWQQFPDQIVGFVPRKHVSTSSGIYSYGFEMQA  
 PGSGNGDQYSMVLIGASFFNSKYLELFQRQPAAVHALIDDTQNCDDIAMNFIIAKHIGKTSGIFVKPVN  
 MDNLEKETNSGYSGMWHRAEHALQRSYCNKLVNIYDSMPLRYSNIMISQFGFPYANYKRKI  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001261441

<b>ORF Size:</b>	1014 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>RefSeq:</b>	<a href="#">NM_001261441.1</a> , <a href="#">NP_001248370.1</a>
<b>RefSeq Size:</b>	3205 bp
<b>RefSeq ORF:</b>	1017 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>	38.7 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]