

Product datasheet for **RG204067**

EXT2 (NM_207122) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | EXT2 (NM_207122) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | EXT2 |
| Synonyms: | SOTV; SSMS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG204067 representing NM_207122
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTGCGTCGGTCAAGTATAATATCCGGGGTCTGCCCTCATCCCAAGAATGAAGACCAAGCACCGAA
 TCTACTATATCACCCCTTCTCCATTGTCTCCTGGGCCTCATTGCCACTGGCATGTTTCAGTTTTGGCC
 CCATTCTATCGAGTCTCAAATGACTGGAATGTAGAGAAGCGCAGCATCCGTGATGTGCCGTTGTTAGG
 CTGCCAGCCGACAGTCCCATCCCAGAGCGGGGGATCTCAGTTGCAGAATGCACACGTGTTTTGATGTCT
 ATCGCTGTGGCTCAACCCAAAGAACAATAAAGGTGTATCTATGCTCTGAAAAAGTACGTGGATGA
 CTTTGGCGTCTCTGTGAGCAACACCATCTCCGGGAGTATAATGAACTGCTCATGGCCATCTCAGACAGT
 GACTACTACACTGATGACATCAACCGGGCTGTCTGTTTGTCCCTCCATCGATGTGCTTAACCAGAACA
 CACTGCGCATCAAGGAGACAGCACAAGCGATGGCCAGCTCTCTAGGTGGATCGAGGTACGAATCACCT
 GTTGTTCAACATGTTGCCTGGAGGTCCCCAGATTATAACACAGCCCTGGATGTCCCAGAGACAGGGCC
 CTGTTGGCTGGTGGCGGCTTTTCTACGTGGACTTACCGCAAGGCTACGATGTGTCAGCATTCTGTCTATA
 GTCCACTGTGAGGTGAGGTGGATCTCCAGAGAAAGGACCAGGTCCACGGCAATACTTCCCTCTGTGATC
 TCAGGTGGGTCTCCATCCTGAGTACAGAGAGGACCTAGAAGCCCTCCAGGTCAAACATGGAGAGTCAAGT
 TTAGTACTCGATAAATGCACCAACCTCTCAGAGGGTGTCTTTCTGTCCGTAAGCGCTGCCACAAGCACC
 AGGTCTTCGATTACCCACAGGTGCTACAGGAGGCTACTTTCTGTGTGGTCTTCGTTGGAGCTCGGCTGGG
 CCAGGCAGTATTGAGCGATGTGTTACAAGCTGGCTGTGTCCGGTTGTGATTGCAGACTCCTATATTTTG
 CCTTTCTCTGAAGTCTTGACTGGAAGAGAGCATCTGTGGTTGTACCAGAAGAAAAGATGTCAGATGTGT
 ACAGTATTTTGCAGAGCATCCCCAAAGACAGATTGAAGAAATGCAGAGACAGGCCGGTGGTTCGGGA
 AGCGTACTTCCAGTCAATTAAGCCATTGCCCTGGCCACCCTGCAGATTATCAATGACCGGATCTATCCA
 TATGCTGCCATCTCCTATGAAGAATGGAATGACCTCCTGCTGTGAAGTGGGGCAGCGTGAGCAATCCAC
 TCTTCTCCCGCTGATCCCACCACAGTCTCAAGGGTTCACCGCCATAGTCTCACCTACGACCGAGTAGA
 GAGCCTTTCGGGTCACTACTGAAGTGTCCAAGGTGCCAGTCTATCCAACTACTTGTGCTGGAAT
 AATCAGAATAAAAACCTCCAGAAGATTCTCTGGCCAAAATCCGGTTCATTAAGTGTGAGGA
 CTGCTGAAAACAAGTTAAGTAACCGTTTCTTCCCTTATGATGAAATCGAGACAGAAGCTGTTCTGGCCAT
 TGATGATGATATCATTATGCTGACCTCTGACGAGCTGCAATTTGGTTATGAGGTCTGGCGGGAATTTCT
 GACCGGTTGGTGGTTACCCGGTCTGCTGATCTCTGGGACCATGAGATGAATAAGTGAAGTATGAGT
 CTGAGTGGACGAATGAAGTGTCCATGGTCTCACTGGGGCAGCTTTTATCACAAGTATTTAATTACCT
 GTATACCTACAAAATGCCTGGGGATATCAAGAAGTGGGTAGATGCTCATATGAACTGTGAAGATATTGCC
 ATGAACTTCTGGTGGCCAACGTACGGGAAAAGCAGTTATCAAGGTAACCCACGAAAGAAATCAAGT
 GTCCTGAGTGCACAGCCATAGATGGGCTTCTACTAGACCAAACACACATGGTGGAGAGGTGAGAGTGCAT
 CAACAAGTTTGCCTCAGTCTTCGGGACCATGCCTCTCAAGGTGGTGAACACCGAGCTGACCCTGTCTCTG
 TACAAAGATGACTTCTGAGAAGCTGAAGAGCTTCCCAACATTGGCAGCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204067 representing NM_207122
 Red=Cloning site Green=Tags(s)

MCASVKYNIRGPALIPRMKTKHRIYYITLFSIVLLGLIATGMFQFWPHSIESSNDWNVEKRSIRDVPVVR
 LPADSPIPERGDLSCRMHTCFDVYRCGFNPKNKIKVYIYALKKYVDDFGVSVSNTISREYNELLMASDS
 DYYTDDINRACLFVPSIDVLNQNTLRIKETAQAMAQLSRWDRGTNHLNFNMLPGGPPDYNTALDVPDRRA
 LLAGGGFSTWYRQGYDVSIPVYSPLSAEVDLPEKGGPRQYFLLSSQVGLHPEYREDLEALQVKHGESV
 LVLDKCTNLSEGVL SVRKRCHKHQVFDYPQVLQEATFCVVLRGARLGQAVLSDVLQAGCVPVVIADSYIL
 PFSEVLDWKRASVVVPEEKMSDVYSILQSIPQRQIEEMQRQARWFEAYFQSIKAIALATLQIINDRIYP
 YAAISYEEWNDPPAVKWSVSNPLFLPLIPPQSQGFTAI VLT YDRVESLFRVITEVSKVPSLSKLLVWN
 NQNKNPPEDSLWPKIRVPLKVVRTAENKLSNRFFPYDEIETEAVLAIDDDIIMLTSEDLQFGYEVWREFP
 DRLVGYPGRLHLWDHEMNKWKYESEWTNEVSMVLTGAAYHKYFNLYTYKMPGDIKNWVDAMNCEDIA
 MNFLVANVTGKAVIKVTPRKKFKCPECTAIDGLSLDQTHMVERSEKINKFASVFGTMPLKVVVEHRADPVL
 YKDDFPEKLSKSPNIGSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

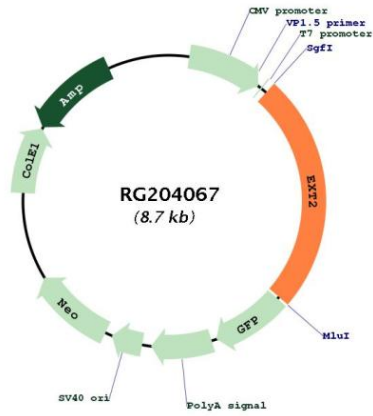


ACCN: NM_207122

ORF Size: 2154 bp

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| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| OTI Annotation: | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p> |
| Components: | <p>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).</p> |
| 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_207122.2 |
| RefSeq Size: | 3651 bp |
| RefSeq ORF: | 2157 bp |
| Locus ID: | 2132 |
| UniProt ID: | Q93063 |
| Cytogenetics: | 11p11.2 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Heparan sulfate biosynthesis, Metabolic pathways |
| Gene Summary: | <p>This gene encodes one of two glycosyltransferases involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type II form of multiple exostoses. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]</p> |

Product images:



Circular map for RG204067