

Product datasheet for **MG210422**

Ext1 (NM_010162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ext1 (NM_010162) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ext1
Synonyms:	AA409028
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210422 representing NM_010162
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGGCCAAAAACGCTATTTTCATCCTGCTCTCAGCTGGCTTGTCTCGCCCTTTTGTTTATTTTG
 GAGGCGTGCAGTTTAGGGCATCGAGGAGCCACAGCCGGAGAGAAGAGCACAGTGGTCGGAATGGCTTGCA
 CCAGCCCAGTCCGGATCATTCTGGCCCGCTTCCCGGACGCTCTGCGCCCTTTCTTTCCTTGGGATCAA
 TTGAAAAACGAGGATTCCAGCGTGCACATTTCCCCCGGAGAGAGGAGACGCCAACTCGAGCATCTACA
 AAGGCAAGAAGTCCGCATGGAGTCTGCTTCGATTTACCCCTTTGCAAGAAAAACGGCTTCAAAGTCTA
 CGTGTACCCGAGCAGAAAGGGGAGAAAATCGCCGAAAGTTACCAAAACATTCTAGCGGCCATCGAGGGC
 TCCAGTTCTACACCTCGGACCCAGCCAGGCGTGCCTTTTGTCTTGAGTCTGGATACTTTAGACAGAG
 ACCAGTTATCACCTCAGTATGTGCACAATTTGAGATCCAAAGTGCAGAGTCTCCACTTGTGGAACAATGG
 TAGGAATCATTTAATTTTAAATTTATATTTCTGGCACTTGGCCTGACTACACTGAGGACGTGGGGTTTGAC
 ATCGGCCAGGCGATGCTGGCCAAAGCCAGCATCAGTACTGAAAACCTCCGACCAAACCTTTGATGTTTCTA
 TTCCCCTCTTTCTAAGGATCATCCCAGGACAGGAGGGGAGAGGGGGTTTTTGAATTTAACACCATCCC
 TCCTCTCAGGAAGTACATGCTGGTATTCAAGGGGAAGCGGTACCTGACAGGGATAGGGTCAGACACCAGG
 AATGCCTTATATCACGTCCATAACGGGGAGGACGTCTTGTCTCCTACCACCTGCAAGCATGGCAAAGACT
 GGCAAAAGCACAAGGATTCTCGTGTGACAGAGACAACACCGAGTATGAGAAATATGATTATCGGGAAAT
 GCTGCACAATGCCACTTTCTGTCTGGTTCTCGTGGTGCAGGCTTGGGTCTTCAGATTCTGGAGGCT
 TTGCAGGCTGCCTGTGTCCCTGTAATGCTCAGCAACGGATGGGAGTTGCCATTCTCCGAAGTGATTAATT
 GGAACCAAGTCCCGTCATAGGCGATGAGAGATTGCTATTACAGATTCTTCTACAATCAGGTCATTCA
 TCAGGATAAAAATCCTAGCACTTAGACAGCAGACAGTTCCTTGTGGGAGGCTTATTTTCTTCAGTTGAG
 AAGATTGTATTAACACTAGAGATTATTCAGGACAGAATATTCAAGCACATATCACGTAACAGTTTAA
 TATGGAACAAACATCCTGGAGGATTGTTCTGCTCCTACCGCAGTATTCATCTTACCTGGGAGATTTCCCTTA
 CTACTATGCTAATTTAGGTTTAAAGCCCCCTCCAAATCACTGCAGTATCCATGCTGTGACTCCCCTG
 GTCTCTCAGTCCCAGCCAGTGTGAAGCTTCTTGTGGTGCAGCCAAATCCCAGTACTGTGCGCAGATCA
 TAGTTCTGTGGAATTGTGACAAGCCTCTACCAGCCAAACATCGCTGGCCTGCCACTGCCGTGCCTGTCAT
 CGTCATTGAAGGAGAAAGCAAGTTATGAGCAGCCGTTTCTGCCCTATGACAACATCATCACTGATGCT
 GTGCTCAGCCTGGATGAGGACACTGTGCTTTCACTACGGAAGTGGATTTTGCCTCACCGTATGGCAGA
 GCTTCCCAGAGAGGATTGTGGGATATCCTGCTCGCAGTATTTCTGGGATAACTCTAAGGAGCGGTGGGG
 ATATACATCCAAGTGGACGAATGACTACTCCATGGTGTGACAGGAGCTGCTATCTACCACAAATATTAT
 CACTACCTGTATTTCCATTACCTGCCAGCCAGCCTGAAGAACATGGTAGACCAACTGGCCAACTGTGAGG
 ACATTCTCATGAATTTCTGGTGTCTGTGTGACAAAAATGCCTCCAATCAAAGTGACCCAGAAGAAACA
 GTATAAGGAGACAATGATGGGACAGACTTCCCAGCATCCCGCTGGGCCGACCCTGACCACTTTGCCAG
 CGACAGAGCTGCATGAATACATTTGCCAGCTGGTTTGGCTACATGCCGCTGATCCATTCTCAGATGAGGC
 TGGACCCGGTCTCTTTAAAGACCAAGTCTCAATTCGAGGAAGAAATACAGAGACATTGAACGACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210422 representing NM_010162
 Red=Cloning site Green=Tags(s)

MQAKKRYFILLSAGSCLALLFYFGGVQFRASRSHSRREEHSGRNLHQPSDFWPRFPDALARPPFFPWDQ
 LENEDSSVHISPRQKRDANSSIYKGGKCRMESCDFTLCKKNGFKVYVYPQQKGEKIAESYQNILAAIEG
 SRFYTSDFPSQACLFVLSLDTLDRDQLSPQYVHNLRSKVQSLHLWNNGRNHLIFNLYSGTWPDYTEDVGF
 IGQAMLAKASISTENFRPNFDVSIPLFSKDHPRTGGGERGFLKFNTIPPLRKYMLVFKGKRYLTGIGSDTR
 NALYHVHNGEDVLLLTTCKHGKDWQKHKDSRCDRDNTEYEKYDYREMLHNATFCLVPRGRRLGSFRFLEA
 LQAACVPVMLSNGWELPFSEVINWNQA AVIGDERLLLQIPSTIRSIHQDKILALRQQTQFLWEAYFSSVE
 KIVLTLEIIQDRIFKHISRNSLIWNKHPGGLFVLPQYSSYLGDFFYYYANLGLKPPSKFTAVIHAVTPL
 VSQSQPVLKLLVAAAKSQYCAQIIVLWNCDKPLPAKHRWPATAVPVIVIEGESKVMSSRFLPYDNIITDA
 VLSLDEDTVLTSTEVDFAVTWQSFPERIVGYPARSHFWDNSKERWGYTSKWTNDYSMVLGAAIYHKYY
 HYL YSHYLPASLKNMVDQLANCEDILMNFLVSAVTKLPPIKVTQKKQYKETMMGQTSRASRWADPDHFAQ
 RQSCMNTFASWFGYMLIHSQMRLDPVLFKDQVSI LRKKYRDIERL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2139_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

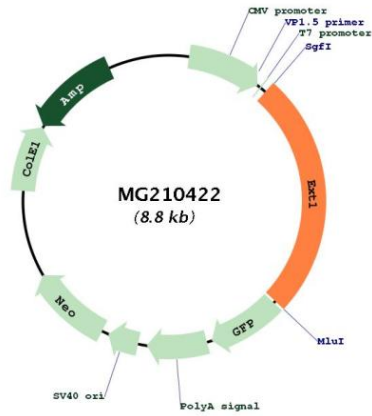


ACCN: NM_010162

ORF Size: 2238 bp

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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<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_010162.2 , NP_034292.2
RefSeq Size:	3478 bp
RefSeq ORF:	2241 bp
Locus ID:	14042
UniProt ID:	P97464
Cytogenetics:	15 20.0 cM
Gene Summary:	Glycosyltransferase required for the biosynthesis of heparan-sulfate. The EXT1/EXT2 complex possesses substantially higher glycosyltransferase activity than EXT1 or EXT2 alone. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210422