

## Product datasheet for **MC205589**

### Ext1 (NM\_010162) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ext1 (NM_010162) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ext1
Synonyms:	AA409028
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC004741  
 CCCACGCGTCCGCCACGCGTCCGGATCAGTCCACGGCTTGGGAAAGGCATCCAGAGAAGGTGGGAGCGG  
 AGAGTTTGAAGTCTTTACAGGCGGGAAGATGGCGGACTGGAGCTGAAAGTGTGATTGGGAAACTTGGGT  
 GATTCTTGTGTTATTTACAATCCTCTTGACCCAGGCAGGACACATGCAGGCCAAAAACGCTATTTTCAT  
 CCTGCTCTCAGCTGGCTCTTGTCTCGCCCTTTTGTGTTTATTTGGAGGCGTGCAGTTTAGGCATCGAGG  
 AGCCACAGCCGGAGAGAAGAGCACAGTGGTCGGAATGGCTTGACCAGCCAGTCCGGATCATTCTGGC  
 CCCGCTTCCCAGGACGCTCTGCGCCCTTTCTTCCCTTGGGATCAATTGAAAACGAGGATCCAGCGTGCA  
 CATTTCCCGCCGAGAGAAGCGAGACGCCAACTCGAGCATCTACAAGGCAAGAAGTGCCGCATGGAGTCC  
 TGCTTCGATTTACCCCTTTGCAAGAAAAACGGCTTCAAAGTCTACGTGTACCCGACGAGAAAGGGGAGA  
 AAATCGCCGAAAGTTACCAAAACATTCTAGCGGCCATCGAGGGCTCCAGGTTCTACACCTCGGACCCAG  
 CCAGGCGTGCCTCTTTGTCTTGAGTCTGGATACTTTAGACAGAGACCAGTTATCACCTCAGTATGTGCAC  
 AATTTGAGATCCAAAGTGCAGAGTCTCCACTTGTGGAACAATGGTAGGAATCATTTAATTTTTAATTTAT  
 ATTCTGGCACTTGGCCTGACTACACTGAGGACGTGGGTTTGACATCGGCCAGGCGATGTGGCCAAAGC  
 CAGCATCAGTACTGAAAACCTCCGACCAAACCTTTGATGTTTCTATTCCCCTCTTTCTAAGGATCATCCC  
 AGGACAGGAGGGGAGAGGGGGTTTTTGAATTTAACACCATCCCTCCTCTCAGGAAGTACATGCTGGTAT  
 TCAAGGGGAAGCGGTACCTGACAGGGATAGGGTACAGACACCAGGAATGCCTTATATCACGTCCATACCG  
 GGAGGACGTCTTGTCTCTCACCACCTGCAAGCATGGCAAAGACTGGCAAAGCACAAGGATTCTCGCTGT  
 GACAGAGACAACACCGAGTATGAGAAATATGATTATCGGGAAATGCTGCAATGCCACTTTCTGTCTGG  
 TTCTCTGTGGTGCAGGCTTGGGTCCTTTCAGATTCTGGAGGCTTTCAGGCTGCCTGTGTCCCTGTAAT  
 GCTCAGCAACGGATGGGAGTTGCCATTCTCCGAAGTGATTAATTGGAACCAAGCTGCCGTCATAGGCGAT  
 GAGAGATTGCTATTACAGATTCTTCTACAATCAGGTCTATTTCATCAGGATAAAATCCTAGCACTTAGAC  
 AGCAGACACAGTCTTGTGGGAGGCTTATTTTCTTTCAGTTGAGAAGATTGTATTAACACTACACTAGAGAT  
 TATTCAGGACAGAATATTCAAGCACATATCACGTAACAGTTTAAATGGAACAAACATCCTGGAGGATTG  
 TTCGTCCTACCGAGTATTCATCTTACCTGGGAGATTTCCCTTACTACTATGCTAATTTAGGTTTAAAGC  
 CCCCTCCAAATTCAGTGCAGTATCCATGCTGTGACTCCCCTGGTCTCTCAGTCCCAGCCAGTGTGAA  
 GCTTCTTGTGGTGCAGCCAAATCCCAGTACTGTGCGCAGATCATAGTTCTGTGGAATTGTGACAAGCCT  
 CTACCAGCCAAACATCGCTGGCCTGCCACTGCCGTGCCTGTATCGTCAATTGAAGGAGAAAGCAAGGTTA  
 TGAGCAGCCGTTTCTGCCCTATGACAACATCATCACTGATGCTGTGCTCAGCCTGGATGAGGACACTGT  
 GCTTTCAACTACGGAAGTGGATTTTGCCTTACCCTATGGCAGAGCTTCCCAGAGAGGATTGTGGGATAT  
 CCTGCTCGCAGTCAATTTCTGGGATAACTCTAAGGAGCGGTGGGGATATACATCCAAGTGGACGAATGACT  
 ACTCCATGGTGTGACAGGAGCTGCTATCTACCACAAATATTATCACTACCTGTATTCCCATTACCTGCC  
 AGCCAGCCTGAAGAACATGGTAGACCAACTGGCCAAGTGTGAGGACATTCTCATGAATTTCTGGTGTCT  
 GCTGTGACAAAATTGCCTCCAATCAAAGTGACCCAGAAGAAACAGTATAAGGAGACAATGATGGGACAGA  
 CTTCCCAGCATCCCCTGGGCCGACCCTGACCACTTTGCCAGCGACAGAGCTGCATGAATACATTTGC  
 CAGCTGGTTTGGCTACATGCCGTGATCCATTCTCAGATGAGGCTGGACCCGGTCTCTTTAAAGACCAA  
 GTCTCAATTCTGAGGAAGAAATACAGAGACATTGAACGACTTTGAGGAAGCCACCGAGTGGGGGAGGGG  
 AAGCAAGATGGGCGTCCAGCTGCTCTCTCTCTTCCCAATGCAGATCCGCTCACGCCAGCAGTGGAGC  
 CAGACTGTGCCAAGTATCAAAAAATCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI  
 ACCN: NM\_010162  
 Insert Size: 2241 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	<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>
<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="#">BC004741</a> , <a href="#">AAH04741</a>
<b>RefSeq Size:</b>	2562 bp
<b>RefSeq ORF:</b>	2241 bp
<b>Locus ID:</b>	14042
<b>UniProt ID:</b>	<a href="#">P97464</a>
<b>Cytogenetics:</b>	15 20.0 cM
<b>Gene Summary:</b>	<p>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]</p>