

## Product datasheet for **MC220988**

### Ext2 (NM\_010163) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ext2 (NM_010163) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ext2
Synonyms:	A1893565
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220988 representing NM\_010163  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGTGCGTCAGTCAAGTCCAACATCCGGGGTCCCGCCCTCATCCCAAGGATGAAGACCAAGCACCGAA  
 TCTACTACGTACCCCTGTTCTCCATCGTCTCCTGGGCCTCATAGCCACGGGCATGTTTCAGTTCTGGCC  
 TCACTCCATTGAGTCTCCAGTGATGGGGTGTGGAGAAACGCAGCATCAGGGAGGTGCCCGTGGTCAGG  
 CTGCCACTGACAGCCCCATCCCAGAGCGGGGGATCTCAGCTGTAGAATGCATACGTGTTTCGATGTCT  
 ACCGCTGCGGCTTCAACCCAAAGAACAATAAAGGTGTACATCTACCCCTAAAAAGTATGTGGATGA  
 TGCCGGTGTTCGGTGAGCAGCGCCATCTCCGGGAGTACAATGAACTGCTGACGGCCATCTCAGACAGC  
 GACTACTACAGACGACATCAACGGGCCTGTCTGTTCTGCCCTCCATTGACGTACTAAACCAGAACC  
 CCCTTCGAATAAAGGAGACGGCGCAGGCCCTGGCCAGCTTCCAGGTGGATCGAGGAACAATACCT  
 GCTGTTCAATATGTTGCCTGGAGCTCCCCAGATTACAACACTGCCCTGGATGTCCCAGAGACAGGGCA  
 CTGCTGGCTGGTGGCGGCTTTTCTACCTGGACTTACCGGCAGGGCTACGATGTCAGCATTCTGTTTCA  
 GCCCACTGTCAGCTGAGATGGCTCTCCAGAGAAAGCACCAGGTCCCGGCGCTACTTCCTACTGTCCCTC  
 TCAGATGGCCATCCACCCTGAGTACAGAGAGAACTAGAAGCCCTCCAGGCCAAACACCAAGAGTCAGTG  
 TTAGTCTTGGACAAATGCACCAATCTCTCGGAGGGCGTCTGTCCGTGCGAAAGCGCTGCCACCAGCACC  
 AGGTCTTCGATTACCCCAAGTGTGCAGGAGGCTACTTTTTGTACGGTCTTCGAGGAGCTCGGCTGGG  
 CCAGGCGGTGCTGAGCGATGCTTACAGGCTGGCTGTGCCAGTTGTCATTGCAGACTCTATATTTCTG  
 CCTTTCTCTGAAGTCTGGACTGGAAGAGGGCATCTGTGGTCTTCCAGAGGAAAAGATGCAGATGTGT  
 ACAGCATCTGCAGAACATCCCACAGAGGCAGATTGAAGAGATGCAGAGACAGGCACGGTGGTTCTGGGA  
 GGCATACTCCAGTCCATTAAGCCATTGCCCTGGCCACCCTACAGATCATCAATGACAGGATCTATCCA  
 TATGCAGCCATCTCCTATGAAGAGTGAATGACCCCTCTGCTGTGAAGTGGGCTAGTGTGAGCAACCCGC  
 TCTTCTGCCGCTGATCCACCTCAGTCCCAAGGCTTCACTGCCATCGTCTCACCTACGACCGCGTGGA  
 GAGCCTCTTCGGGTGATCACCAGGTGTCCAAGGTGCCAGTCTGTCCAAGCTGCTGGTGGTCTGGAAT  
 AATCAGAATAAAAACCTCCGGAAGAATCTCTGTGGCCAAAATCCGAGTCCCTGAAGGTTGTGAGGA  
 CTGCAGAAAACAAGCTAAGTAATCGTTTCTTCCCTTACGACGAAATCGAGACAGAGGCCGCTGCTGGCCAT  
 CGATGACGACATCATGCTGACCTCTGACGAGCTGCAGTTGGTTATGAGGTCTGGCGGGAATTTCCC  
 GACCGCTGGTGGGCTACCCAGGCGCCTGCATCTCTGGGACCAGAGATGAACAAGTGAAGATGAGT  
 CTGAATGGACCAATGAGGTGTCATGGTGTCTACGGGCGCAGCCTTCTATCACAAGTATTTAATTACCT  
 GTACACCTACAAAATGCCTGGAGACATCAAGAAGTGGGTGGATACTCACATGAACTGTGAAGATATTGCC  
 ATGAATTTTCTGGTGGCCAATGTACAGGGAAAGCTGTCAAGGTAACCCCAAGGAAGAAGTTCAAGT  
 GTCCTGAGTGCACGGCCATCGACGGGCTCTCCCTAGACCAGACTCACATGGTAGAGAGATCTGAGTGCAT  
 CAACAAGTTTGCCTCCGCTTCGGAACGATGCCCTCAAGGTGGTGGAGCACCGAGCGGACCCTGTCCCT  
 TACAAAGATGACTTCCCCGAGAACTGAAGAGCTTCCCCAACATTGGCAGCTTA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_010163  
**Insert Size:** 2157 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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><a href="#">NM_010163.3</a></u> , <u><a href="#">NP_034293.2</a></u>
<b>RefSeq Size:</b>	2875 bp
<b>RefSeq ORF:</b>	2157 bp
<b>Locus ID:</b>	14043
<b>UniProt ID:</b>	<u><a href="#">P70428</a></u>
<b>Cytogenetics:</b>	2 51.62 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. Appears to be a tumor suppressor. Required for the exosomal release of SDCBP, CD63 and syndecan. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.</p>