

Product datasheet for **MG204853**

Extl2 (NM_021388) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Extl2 (NM_021388) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Extl2
Synonyms: 3000001D04Rik; AW146439
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204853 representing NM_021388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGAGGGTTGCCACATCTGCAAACCTCCGGGAAGAGTCATGGGGATTCGAGTGCTCCGGTTCTCCC
 TGGTGGTCATCCTTGTGTGCTGCTGGTAGCGGGGCTTTGACCAACTTACTCCCCAACATCAAAGAAGA
 CAAGATGCTCACTCTGCGTAGGGAGATCAAATCCCGAGCAAGTCGGCCCTGGATTCATTCACCCTCATC
 ATGCAGACATAACAAGAACAGACCTCTACTAAGACTCTTAAATCATTACCAGGCAGTACCGAGTCTGC
 ACAAGGTGATCGTGGTGTGGAACAATGTGGGAGAGAAGGGCCAGAGGAGTTGTGGAATTCCTAGGGCC
 TCACCCGATCCCTGTATCTTCAAACCACAACAGCAAACAAAATGAGAAACCGACTCCAGGTCTTCCCT
 GAAGTGGAGACCAACGCGGTGTTGATGGTAGACGATGACACACTCATTAGTGCCAGGACCTTGTTTTCG
 CTTTCTCAATTTGGCAGCAATTTCTGATCAGATCATAGGATTTGTACCTAGAAAGCACGTCTCTACTTC
 CTCCGGGATCTACAGTTACGGAGGCTTTGAGCTGCAGACACCGGGGCCCGGGAATGGCGACCAGTACTCC
 ATGGTGCTCATCGGAGCCTCCTTCTTCAACAGCAAATACCTGGAACCTTCCAGAAGCAGCCTGCAGCCG
 TCCACGCGCTGATCGATGAGACGCAGAAGTGTGACGACATCGCTATGAATTTCTCGTACCAGGCACAC
 TGGCAAGCCTTCAGGGATATTCGTGAAACCCATAAACATGGTCAACTTGGAAAAAGAAACCAACGGGTAT
 TCCGGAATGTGGCACCGGGCGGAGCACTTTCTGCAGAGATCCTACTGTATAAATAAGCTCGTTAACATCT
 ACGACGGCATGCCCTAAAGTACTCCAACATTATGATTTCCAGTTTGGTTTTCCGTATGCCAACCAATAA
 AAGTAAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204853 representing NM_021388
 Red=Cloning site Green=Tags(s)

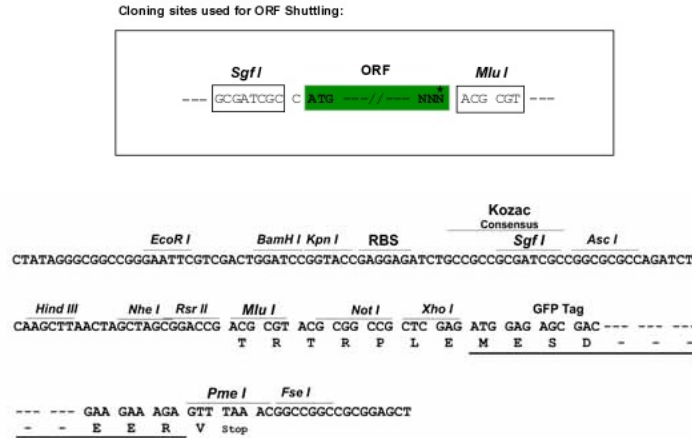
MMRGCHICKLPGRVMGIRVLRFSLVVILVLLL VAGALTNLLPNIKEDKMLTLRREIKSPSKSALDSFTLI
 MQTYNRTDLLLRLLNHYQAVPSLHKVIVVWNNVGEKGPEELWNSLGPHPIPVIKPKQTANKMRNRLQVFP
 EVETNAVLMVDDDTLISAQDLVFAFSIWQQFPDQIIGFVPRKHVSTSSGIYSYGGFELQTPGPGNGDQYS
 MVLI GASFFNSKYLELFQKQPAAVHALIDETQNCDDIAMNFLVTRHTGKPSGIFVKPINMVNLEKETNGY
 SGMWHRAEHFLQRSYCI NKL VNIYDGMPLKYSNIMISQFGFPYANHKS KM

TRTRPLE - GFP Tag - V

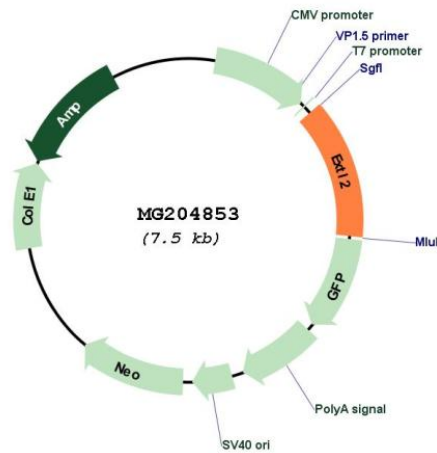
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021388

ORF Size: 990 bp

OTI Disclaimer:	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
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_021388.4 , NP_067363.3
RefSeq Size:	2841 bp
RefSeq ORF:	993 bp
Locus ID:	58193
UniProt ID:	Q9ES89
Cytogenetics:	3 G1
Gene Summary:	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]