

Product datasheet for **RC230461**

EXT2 (NM_001178083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXT2 (NM_001178083) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EXT2
Synonyms:	SOTV; SSMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC230461 representing NM_001178083
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGTGCGTCGGTCAAGTATAATATCCGGGGTCTGCCCTCATCCCAAGAATGAAGACCAAGCACCGAA
TCTACTATATCACCCCTTCTCCATTGTCTCCTGGGCCTCATTGCCACTGGCATGTTTCAGTTTTGGCC
CCATTCTATCGAGTCCTCAAATGACTGGAATGTAGAGAAGCGCAGCATCCGTGATGTGCCGTTGTTAGG
CTGCCAGCCGACAGTCCCATCCCAGAGCGGGGGATCTCAGTTGCAGAATGCACACGTGTTTTGATGTCT
ATCGCTGTGGCTCAACCCAAAGAACAATAAAGGTGTATCTATGCTCTGAAAAAGTACGTGGATGA
CTTTGGCGTCTCTGTGAGCAACACCATCTCCGGGAGTATAATGAACTGCTCATGGCCATCTCAGACAGT
GACTACTACACTGATGACATCAACGGGCTGTCTGTTTGTCCCTCCATCGATGTGCTTAACCAGAACA
CACTGCGCATCAAGGAGACAGCACAAGCGATGGCCAGCTCTCTAGGTGGATCGAGGTACGAATCACCT
GTTGTTCAACATGTTGCCTGGAGGTCCCCAGATTATAACACAGCCCTGGATGTCCCAGAGACAGGGCC
CTGTTGGCTGGTGGCGGCTTTTCTACGTGGACTTACCGCAAGGCTACGATGTCCAGCATTCTGTCTATA
GTCCACTGTGAGGTGAGTGGATCTCCAGAGAAAGGACCAGGTCCACGGCAATACTTCCCTCTGTCTATC
TCAGGTGGGTCTCCATCCTGAGTACAGAGAGGACCTAGAAGCCCTCCAGGTCAAACATGGAGAGTCAAGT
TTAGTACTCGATAAATGCACCAACCTCTCAGAGGGTGTCTTTCTGTCCGTAAGCGCTGCCACAAGCACC
AGGTCTTCGATTACCCACAGGTGCTACAGGAGGCTACTTTCTGTGTGGTCTTCGTTGGAGCTCGGCTGGG
CCAGGCAGTATTGAGCGATGTGTTACAAGCTGGCTGTGTCCGGTGTGATTGCAGACTCCTATATTTTG
CCTTTCTCTGAAGTCTTGACTGGAAGAGAGCATCTGTGGTGTACCAGAAGAAAAGATGTCAGATGTGT
ACAGTATTTTGCAGAGCATCCCCAAAGACAGATTGAAGAAATGCAGAGACAGCTTTCATGGAACCAGC
CAGGAGAGAGAAGTGGTCACTGCTAATACCAAATGAACTCCCTGATCTGGCCTAGGGAACAGTGGGAT
TCACAGATTATCAATGACCGGATCTATCCATATGCTGCCATCTCCTATGAAGAATGGAATGACCCTCCTG
CTGTGAAGTGGGCGAGCTGAGCAATCCACTCTTCCCTCCGCTGATCCCACCACAGTCTCAAGGGTTCAC
CGCCATAGTCCTCACCTACGACCGAGTAGAGAGCCTTCCGGGTCACTACTGAAGTGTCCAAGGTGCC
AGTCTATCCAACTACTTGTCTGGAATAATCAGAATAAAAACCCCTCCAGAAGATTCTCTTGCCCCA
AAATCCGGTTCATTAAAAGTTGTGAGGACTGCTGAAAACAAGTTAAGTAACCGTTTCTCCCTTATGA
TGAATCGAGACAGAAGCTGTTCTGGCCATTGATGATGATATCATTATGCTGACCTTGACGAGCTGCAA
TTTGGTTATGAGGTCTGGCGGAATTTCTGACCAGTGGTGGTTACCCGGTCTGCTGCATCTCTGGG
ACCATGAGATGAATAAGTGAAGTATGAGTCTGAGTGGACGAATGAAGTGTCCATGGTGTCACTGGGGC
AGCTTTTATCACAAGTATTTAATTACCTGTATACCTACAAAATGCCTGGGGATATCAAGAAGTGGGTA
GATGCTCATATGAACTGTGAAGATTTGCCATGAACTTCTGGTGGCCAAACGTCACGGGAAAAGCAGTTA
TCAAGGTAACCCACGAAAGAAATCAAGTGTCTGAGTGCACAGCCATAGATGGGCTTCTACTAGACCA
AACACACATGGTGGAGAGGTGAGTGCATCAACAAGTTGCTTCAGTCTTCGGGACCATGCCTCTCAAG
GTGGTGGAAACCCGAGCTGACCCTGTCTGTACAAAGTACTTCTGAGAAGCTGAAGAGCTTCCCCA
ACATTGGCAGCTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230461 representing NM_001178083
Red=Cloning site Green=Tags(s)

MCASVKYINIRGPALIPRMKTKHRIYYITLFSIVLLGLIATGMFQFWPHSIESSNDWNVEKRSIRDVPVVR
 LPADSPIPERGDLSRMTCTFDVYRCGFNPKNKIKVYIYALKKYVDDFGVSVSNTISREYNELLMASDS
 DYYTDDINRACLFVPSIDVLNQNTLRKETATAQAMAQLSRWDRGTNHLFNMLPGGPPDYNTALDVPDRRA
 LLAGGGFSTWYRQGYDVSIPVYSPLSAEVDLPEKGGPRQYFLLSSQVGLHPEYREDLEALQVKHGESV
 LVLDKCTNLSEGLSVRKRCHKHQVFDYPQVLQEATFCVVLRGARLGQAVLSDVLQAGCVPVVIADSYIL
 PFSEVLDWKASVVVPEEKMSDVYSILQSIPQRQIEEMQRQLFMEPARRENWSAANHQMNSLIWPREQWD
 SQIINDRIYPYAAISYEEWNPAPVWGSVSNPLFLPLIPPQSQGFTAIVLTYDRVESLFRVITEVSKVP
 SLSKLLVWNNQKNPPEDSLWPKIRVPLKVVRTAENKLSNRFFPYDEIETEAVLAIDDDIIMLTSELDQ
 FGYEVWREFPDRLVGYPGRHLWDHEMNKWKYESEWTNEVSMVLGAAFYHKYFNLYTYKMPGDIKNWV
 DAHMNCEDIAMNFLVANVTGKAVIKVTPRKKFKCPECTAIDGLSLDQTHMVERSECINKFASVFGTMPLK
 VVEHRADPVLYKDDFPEKLKSFNIGSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001178083

ORF Size: 2184 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:

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_001178083.2](#)

RefSeq ORF: 2187 bp

Locus ID: 2132

UniProt ID: [Q93063](#)

Cytogenetics: 11p11.2

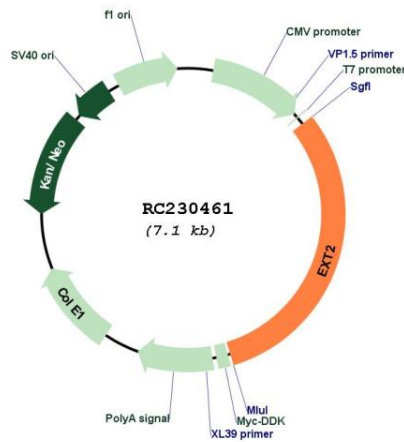
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Heparan sulfate biosynthesis, Metabolic pathways

MW: 84 kDa

Gene Summary: 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]

Product images:



Circular map for RC230461