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Product datasheet for RC200644

EXT1 (NM_000127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXT1 (NM_000127) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EXT1
Synonyms:	EXT; LGCR; LGS; TRPS2; TTV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC200644 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGCCAAAAAACGCTATTTCATCCTGCTCTCAGCTGGCTCTTGTCTCGCCCTTTTGTTTTATTTCG
GAGGCTTGCAGTTTAGGGCATCGAGGAGCCACAGCCGGAGAGAAGAACACAGCGGTAGGAATGGCTTGCA
CCACCCCAGTCCGGATCATTTCTGGCCCCGCTTCCCGGACGCTCTGCGCCCCTTCGTTCCTTGGGATCAA
TTGGAAAACGAGGATTCCAGCGTGCACATTTCCCCCCGGCAGAAGCGAGATGCCAACTCCAGCATCTACA
AAGGCAAGAAGTGCCGCATGGAGTCCTGCTTCGATTTCACCCTTTGCAAGAAAAACGGCTTCAAAGTCTA
CGTATACCCACAGCAAAAAGGGGAGAAAATCGCCGAAAGTTACCAAAACATTCTAGCGGCCATCGAGGGC
TCCAGGTTCTACACCTCGGACCCCAGCCAGGCGTGCCTCTTTGTCCTGAGTCTGGATACTTTAGACAGAG
ACCAGTTGTCACCTCAGTATGTGCACAATTTGAGATCCAAAGTGCAGAGTCTCCACTTGTGGAACAATGG
TAGGAATCATTTAATTTTTAATTTATATTCCGGCACTTGGCCTGACTACACCGAGGACGTGGGGTTTGAC
ATCGGCCAGGCGATGCTGGCCAAAGCCAGCATCAGTACTGAAAACTTCCGACCCAACTTTGATGTTTCTA
TTCCCCTCTTTTCTAAGGATCATCCCAGGACAGGAGGGGAGAGGGGGTTTTTGAAGTTCAACACCATCCC
TCCTCTCAGGAAGTACATGCTGGTATTCAAGGGGAAGAGGTACCTGACAGGGATAGGATCAGACACCAGG
AATGCCTTATATCACGTCCATAACGGGGAGGACGTTGTGCTCCTCACCACCTGCAAGCATGGCAAAGACT
GGCAAAAGCACAAGGATTCTCGCTGTGACAGAGACAACACCGAGTATGAGAAGTATGATTATCGGGAAAT
GCTGCACAATGCCACTTTCTGTCTGGTTCCTCGTGGTCGCAGGCTTGGGTCCTTCAGATTCCTGGAGGCT
TTGCAGGCTGCCTGCGTCCCTGTGATGCTCAGCAATGGATGGGAGTTGCCATTCTCTGAAGTGATTAATT
GGAACCAAGCTGCCGTCATAGGCGATGAGAGATTGTTATTACAGATTCCTTCTACAATCAGGTCTATTCA
TCAGGATAAAATCCTAGCACTTAGACAGCAGACACAATTCTTGTGGGAGGCTTATTTTTCTTCAGTTGAG
AAGATTGTATTAACTACACTAGAGATTATTCAGGACAGAATATTCAAGCACATATCACGTAACAGTTTAA
TATGGAACAAACATCCTGGAGGATTGTTCGTACTACCACAGTATTCATCTTATCTGGGAGATTTTCCTTA
CTACTATGCTAATTTAGGTTTAAAGCCCCCCTCCAAATTCACTGCAGTCATCCATGCGGTGACCCCCCTG
GTCTCTCAGTCCCAGCCAGTGTTGAAGCTTCTCGTGGCTGCAGCCAAGTCCCAGTACTGTGCCCAGATCA
TAGTTCTATGGAATTGTGACAAGCCCCTACCAGCCAAACACCGCTGGCCTGCCACTGCTGTGCCTGTCGT
CGTCATTGAAGGAGAGAGCAAGGTTATGAGCAGCCGTTTTCTGCCCTACGACAACATCATCACAGACGCC
GTGCTCAGCCTTGACGAGGACACGGTGCTTTCAACAACAGAGGTGGATTTCGCCTTCACAGTGTGGCAGA
GCTTCCCTGAGAGGATTGTGGGGTACCCCGCGCGCAGCCACTTCTGGGATAACTCTAAGGAGCGGTGGGG
ATACACATCAAAGTGGACGAACGACTACTCCATGGTGTTGACAGGAGCTGCTATTTACCACAAATATTAT
CACTACCTATACTCCCATTACCTGCCAGCCAGCCTGAAGAACATGGTGGACCAATTGGCCAATTGTGAGG
ACATTCTCATGAACTTCCTGGTGTCTGCTGTGACAAAATTGCCTCCAATCAAAGTGACCCAGAAGAAGCA
GTATAAGGAGACAATGATGGGACAGACTTCTCGGGCTTCCCGTTGGGCTGACCCTGACCACTTTGCCCAG
CGACAGAGCTGCATGAATACGTTTGCCAGCTGGTTTGGCTACATGCCGCTGATCCACTCTCAGATGAGGC
TCGACCCCGTCCTCTTTAAAGACCAGGTCTCTATTTTGAGGAAGAAATACCGAGACATTGAGCGACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC200644 protein sequence
Red=Cloning site Green=Tags(s)

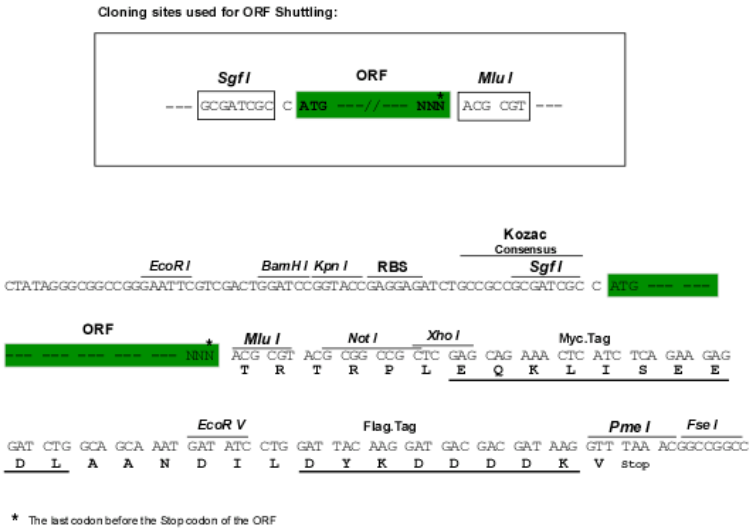
MQAKKRYFILLSAGSCLALLFYFGGLQFRASRSHSRREEHSGRNGLHHPSPDHFWPRFPDALRPFVPWDQ
LENEDSSVHISPRQKRDANSSIYKGKKCRMESCFDFTLCKKNGFKVYVYPQQKGEKIAESYQNILAAIEG
SRFYTSDPSQACLFVLSLDTLDRDQLSPQYVHNLRSKVQSLHLWNNGRNHLIFNLYSGTWPDYTEDVGFD
IGQAMLAKASISTENFRPNFDVSIPLFSKDHPRTGGERGFLKFNTIPPLRKYMLVFKGKRYLTGIGSDTR
NALYHVHNGEDVVLLTTCKHGKDWQKHKDSRCDRDNTEYEKYDYREMLHNATFCLVPRGRRLGSFRFLEA
LQAACVPVMLSNGWELPFSEVINWNQAAVIGDERLLLQIPSTIRSIHQDKILALRQQTQFLWEAYFSSVE
KIVLTTLEIIQDRIFKHISRNSLIWNKHPGGLFVLPQYSSYLGDFPYYYANLGLKPPSKFTAVIHAVTPL
VSQSQPVLKLLVAAAKSQYCAQIIVLWNCDKPLPAKHRWPATAVPVVVIEGESKVMSSRFLPYDNIITDA
VLSLDEDTVLSTTEVDFAFTVWQSFPERIVGYPARSHFWDNSKERWGYTSKWTNDYSMVLTGAAIYHKYY
HYLYSHYLPASLKNMVDQLANCEDILMNFLVSAVTKLPPIKVTQKKQYKETMMGQTSRASRWADPDHFAQ
RQSCMNTFASWFGYMPLIHSQMRLDPVLFKDQVSILRKKYRDIERL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6392_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000127

ORF Size: 2238 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.

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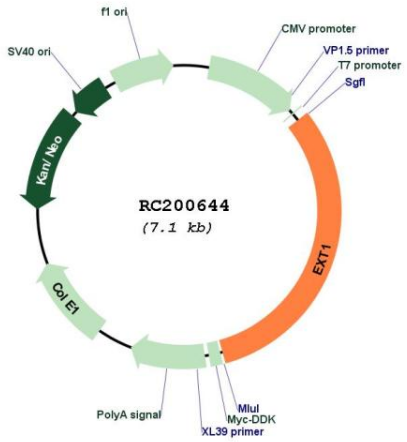
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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_000127.3
RefSeq Size:	3376 bp
RefSeq ORF:	2241 bp
Locus ID:	2131
UniProt ID:	Q16394
Cytogenetics:	8q24.11
Domains:	Exostosin
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
MW:	86.3 kDa
Gene Summary:	This gene encodes an endoplasmic reticulum-resident type II transmembrane glycosyltransferase involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type I form of multiple exostoses. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200644

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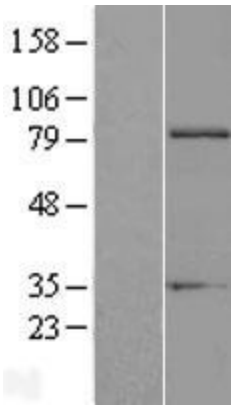

Western blot validation of overexpression lysate (Cat# [LY424905]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200644 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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