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Product datasheet for RC201486

ERLEC1 (NM_015701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERLEC1 (NM_015701) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERLEC1
Synonyms:	C2orf30; CIM; CL24936; CL25084; HEL117; XTP3-B; XTP3TPB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201486 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAAGGAGGCGGCGGCGTACGGAGTCTGGTCCCGGGCGGGCCGGTGTTACTGGTCCTCTGCGGCC
TCCTGGAGGCGTCCGGCGGCGGCCGAGCCCTTCCTCAACTCAGCGATGACATCCCTTTCCGAGTCAACTG
GCCCGGCACCGAGTTCTCTCTGCCCACAACTGGAGTTTTATATAAAGAAGATAATTATGTCATCATGACA
ACTGCACATAAAGAAAAATATAAATGCATACTTCCCCTTGTGACAAGTGGGGATGAGGAAGAAGAAAAGG
ATTATAAAGGCCCTAATCCAAGAGAGCTTTTGGAGCCACTATTTAAACAAAGCAGTTGTTCCTACAGAAT
TGAGTCTTATTGGACTTACGAAGTATGTCATGGAAAACACATTCGGCAGTACCATGAAGAGAAAGAAACT
GGTCAGAAAATAAATATTCACGAGTACTACCTTGGGAATATGTTGGCCAAGAACCTTCTATTTGAAAAAG
AACGAGAAGCAGAAGAAAAGGAAAAATCAAATGAGATTCCCACTAAAAATATCGAAGGTCAGATGACACC
ATACTATCCTGTGGGAATGGGAAATGGTACACCTTGTAGTTTGAAACAGAACCGGCCCAGATCAAGTACT
GTGATGTACATATGTCATCCTGAATCTAAGCATGAAATTCTTTCAGTAGCTGAAGTTACAACTTGTGAAT
ATGAAGTTGTCATTTTGACACCACTCTTGTGCAGTCATCCTAAATATAGGTTCAGAGCATCTCCTGTGAA
TGACATATTTTGTCAATCACTGCCAGGATCTCCATTTAAGCCCCTCACCCTGAGGCAGCTGGAGCAGCAG
GAAGAAATACTAAGGGTGCCTTTTAGGAGAAATAAAGAGGAAGATTTGCAATCAACTAAAGAAGAGAGAT
TTCCAGCGATCCACAAGTCGATTGCTATTGGCTCTCAGCCAGTGCTCACTGTTGGGACAACCCACATATC
CAAATTGACAGATGACCAACTCATAAAAGAGTTTCTTAGTGGTTCTTACTGCTTTCGTGGGGGTGTCGGT
TGGTGGAAATATGAATTCTGCTATGGCAAACATGTACATCAATACCATGAGGACAAGGATAGTGGGAAAA
CCTCTGTGGTTGTCGGGACATGGAACCAAGAAGAGCATATTGAATGGGCTAAGAAGAATACTGCTAGAGC
TTATCATCTTCAAGACGATGGTACCCAGACAGTCAGGATGGTGTCACATTTTTATGGAAATGGAGATATT
TGTGATATAACTGACAAACCAAGACAGGTGACTGTAAAACTAAAGTGCAAAGAATCAGATTCACCTCATG
CTGTTACTGTATATATGCTAGAGCCTCACTCCTGTCAATATATTCTTGGGGTTGAATCTCCAGTGATCTG
TAAAATCTTAGATACAGCAGATGAAAATGGACTTCTTTCTCTCCCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201486 protein sequence
Red=Cloning site Green=Tags(s)

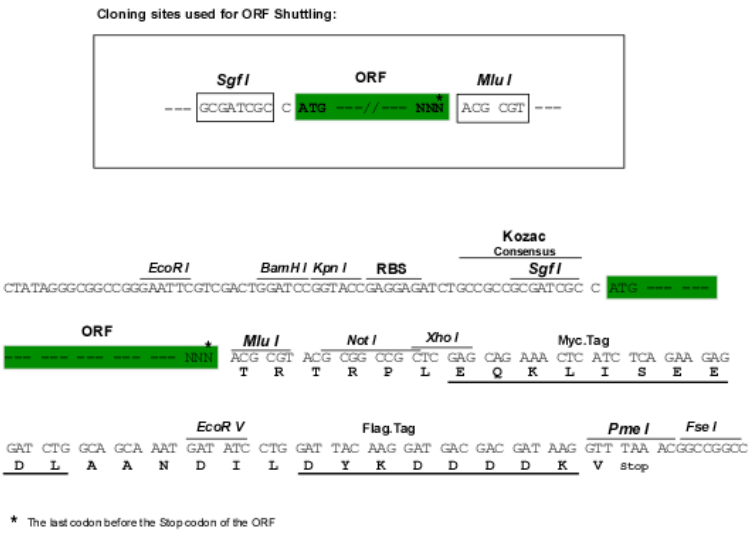
MEEGGGGVRSLVPGGPVLLVLCGLLEASGGGRALPQLSDDIPFRVNWPGTEFSLPTTGVLYKEDNYVIMT
TAHKEKYKCILPLVTSGDEEEEKDYKGPNPRELLEPLFKQSSCSYRIESYWTYEVCHGKHIRQYHEEKET
GQKINIHEYYLGNMLAKNLLFEKEREAEEKEKSNEIPTKNIEGQMTPYYPVGMGNGTPCSLKQNRPRSST
VMYICHPESKHEILSVAEVTTCEYEVVILTPLLCSHPKYRFRASPVNDIFCQSLPGSPFKPLTLRQLEQQ
EEILRVPFRRNKEEDLQSTKEERFPAIHKSIAIGSQPVLTVGTTHISKLTDDQLIKEFLSGSYCFRGGVG
WWKYEFCYGKHVHQYHEDKDSGKTSVVVGTWNQEEHIEWAKKNTARAYHLQDDGTQTVRMVSHFYGNGDI
CDITDKPRQVTVKLKCKESDSPHAVTVYMLEPHSCQYILGVESPVICKILDTADENGLLSLPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6245_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015701

ORF Size: 1449 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_015701.5

RefSeq Size: 2605 bp

RefSeq ORF: 1452 bp

Locus ID: 27248

UniProt ID: Q96DZ1

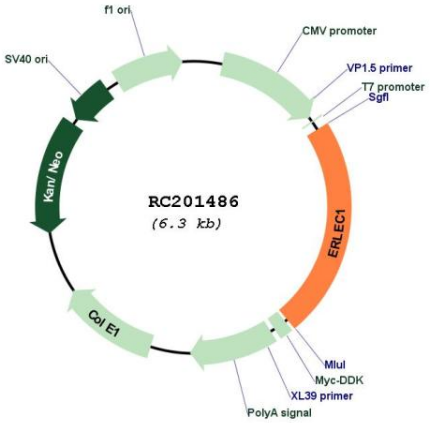
Cytogenetics: 2p16.2

Protein Families: Secreted Protein

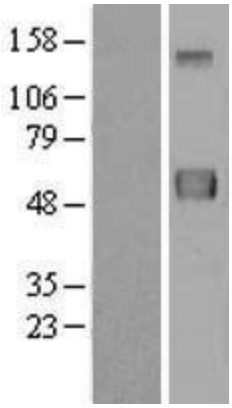
MW: 54.9 kDa

Gene Summary: This gene encodes a resident endoplasmic reticulum (ER) protein that functions in N-glycan recognition. This protein is thought to be involved in ER-associated degradation via its interaction with the membrane-associated ubiquitin ligase complex. It also functions as a regulator of multiple cellular stress-response pathways in a manner that promotes metastatic cell survival. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 21. [provided by RefSeq, Aug 2011]

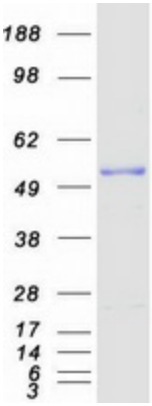
Product images:



Circular map for RC201486



Western blot validation of overexpression lysate (Cat# [LY414394]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201486 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ERLEC1 protein (Cat# [TP301486]). The protein was produced from HEK293T cells transfected with ERLEC1 cDNA clone (Cat# RC201486) using MegaTran 2.0 (Cat# [TT210002]).