

Product datasheet for **MR207737**

Erlec1 (NM_025745) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erlec1 (NM_025745) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Erlec1
Synonyms:	4933407N01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207737 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAAGGAGACGGCGGCTTGGGAGCCTGGTCCCCGGAGGGCCACTGTTGCTGGTTCTGTACGGTC
 TCCTGGAGGCGTCCGGCGCGGCGAGCGCTGCCCCAGCTCAGCGACGACATCCCCTCCGAGTCAACTG
 GCCTGGTACCGAGTTCTCTGCTCACTGAGTGGTGTATAAAGAAGATAATTACATCATCATGACA
 ACTGCTCATAAAGAAAAACAAATGTATACTTCCACTGTGACAAGTGGGGATGAGGAAGAAGAAAAGG
 ATTACAAAGGCCCAATCCAAGAGAGCTTTTGAACCCTATTTAAACAAAGCAGTTGTTCTACAGAAT
 TGAATCTTACTGGACTTATGAGGTCTGTCATGGGAAACATATTCGACAGTACCATGAAGAAAAAGAACT
 GGCCAAAAAGTAAATATTCATGAATACTACCTGGGAATATGTTGGCTAAGAATCTTCTGTATGAAAAAG
 AACGAGAAGCAAAGAAAATGAAAAGTCAAATGAGATTCCTACTAAAAACATTGAAGGTCAGATGACACC
 CTACTATCCTGTTGGAATGGGAAATGGTACACCTTGTAGTCTGAAACAAAATCGACCCAGATCAAGTACT
 GTGATGTACATATGCCATCCTGAATCTAAGCATGAGATCCTTTCAGTAGCTGAAGTTACAACCTTGTGAAT
 ATGAAGTTGTCATTTTGACACCCTCTTGTGCAGTCATCCTAAATACAAGTTCAGAGCCTCTCCTGTGAA
 TGACATATTCTGTCAATCACTGCCGGGCTCTCCATTTAAACCCCTCACACTAAGACAGTTGGAGCAGCAG
 GAAGAGATACTGAGAGTGCCATTCAGGAGAAAATAAGAGGAAGATTTGCCATCTGCTAAGGAAGAGAGAT
 TTCCAGCCATCCACAAACCTATTGCTGTTGGCTCTCAGCCAGTGTCTACTGTTGGAACAACCCACATTTT
 CAAGCTGACAGATGACCAGCTCATCAAGGAGTTCTAAGTGGCTTCTACTGCTTTCATGGGGGTGTTGGT
 TGGTGGAAATATGAATTTGCTATGGCAAACATGTACATCAATATCACGAGGACAAAGATAATGGAAAAA
 CTTCTGTAGTTGTGGGACATGGAACCAAGAAGAGCATGTTGAGTGGGCTAAGAAAAACTGCTAGAGC
 GTATCATCTTCAAGACGATGGCACCAGACAGTCAGGATGGTGTACATTTTTATGGAAATGGGGATATT
 TGTGATATAACTGACAAACCCAGACAAGTACTGTAAAACATAAGTGTAAAGAATCAGACTCTCCTCATG
 CTGCTACTGTGTATATGCTAGAGCCTCACTCGTCCAGTATATTCTTGGGGTTGAATCTCCAGTAATCTG
 TAAAATCTAGATACAGCTGATGAAAATGGACTTCTTTCTCTCCCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207737 protein sequence
 Red=Cloning site Green=Tags(s)

MEEGDGGLRSLVPGGPLLLVLYGLLEASGGGRALPQLSDDIPFRVNWPGTEFLPTTGVLYKEDNYIIMT
 TAHKEKYKCILPLVTSGDEEEKDYKGNPRELLEPLFKQSSCSYRIESYWTYEVCHGKHIRQYHEEKET
 GQKVNIHEYYLGNMLAKNLLYEKEREAKENEKSNEIPTKNIEGQMTPEYYPVGMNGTGPCSLKQNRPRSST
 VMYICHPEKHEILSVAEVTTCYEYEVILTPLLCSHPKYKFRASPVNDIFCQSLPGSPFKPLTLRQLEQQ
 EEILRVPFRRNKEEDLPSAKEERFPAIHKPIAVGSQPVLTVGTTTHISKLTDQLIKEFLSGSYCFHGGVG
 WWKYEFYKGVHGHYHEDKDNKTSVVVGTWNQEEHVEWAKKNTARAYHLQDDGTQTVRMVSHFYNGDI
 CDITDKPRQVTVKLKCKESDSPHAVTVYMLEPHSCQYILGVESPVICKILDTADENGLLSLPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_025745

ORF Size: 1452 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_025745.3](#), [NP_080021.3](#)
RefSeq Size: 3501 bp

RefSeq ORF: 1452 bp

Locus ID: 66753

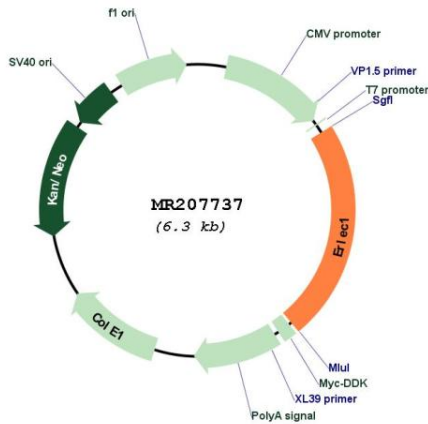
UniProt ID: [Q8VEH8](#)

Cytogenetics: 11 A4

MW: 54.9 kDa

Gene Summary: Probable lectin that binds selectively to improperly folded luminal proteins. May function in endoplasmic reticulum quality control and endoplasmic reticulum-associated degradation (ERAD) of both non-glycosylated proteins and glycoproteins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207737