

Product datasheet for **MG207737**

Erlec1 (NM_025745) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Erlec1 (NM_025745) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Erlec1
Synonyms:	4933407N01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207737 representing NM_025745
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAAGGAGACGGCGGCTTGGGAGCCTGGTCCCCGGAGGGCCACTGTTGCTGGTTCTGTACGGTC
 TCCTGGAGGCGTCCGGCGCGGCCGAGCGCTGCCCCAGCTCAGCGACGACATCCCCTCCGAGTCAACTG
 GCCTGGTACCGAGTTCTCTCTGCCTACAACCTGGAGTTTTGTATAAAGAAGATAATTACATCATCATGACA
 ACTGCTCATAAAGAAAAATACAAATGTATACTTCCACTTGTGACAAGTGGGGATGAGGAAGAAGAAAAGG
 ATTACAAAGGCCCAATCCAAGAGAGCTTTTGGAACTACTTTAAACAAAGCAGTTGTTCTACAGAAT
 TGAATCTTACTGGACTTATGAGGTCTGTCATGGGAAACATATTCGACAGTACCATGAAGAAAAAGAACT
 GGCCAAAAAGTAAATATTCATGAATACTACCTGGGAATATGTTGGCTAAGAATCTTCTGTATGAAAAAG
 AACGAGAAGCAAAGAAAATGAAAAGTCAAATGAGATTCCTACTAAAAACATTGAAGGTCAGATGACACC
 CTACTATCCTGTTGGAATGGGAAATGGTACACCTTGTAGTCTGAAACAAAATCGACCCAGATCAAGTACT
 GTGATGTACATATGCCATCCTGAATCTAAGCATGAGATCCTTTCAGTAGCTGAAGTTACAACCTTGTGAAT
 ATGAAGTTGTCATTTTGACACCACTCTTGTGCAGTCATCCTAAATACAAGTTCAGAGCCTCTCTGTGAA
 TGACATATTCTGTCAATCACTGCCGGGCTCTCCATTTAAACCCCTCACACTAAGACAGTTGGAGCAGCAG
 GAAGAGATACTGAGAGTGCCATTCAGGAGAAAATAAGAGGAAGATTTGCCATCTGCTAAGGAAGAGAGAT
 TTCCAGCCATCCACAAACCTATTGCTGTTGGCTCTCAGCCAGTGTCTACTGTTGGAACAACCCACATTTT
 CAAGCTGACAGATGACCAGCTCATCAAGGAGTTCTAAGTGGCTTCTACTGCTTTCATGGGGTGTGGT
 TGGTGGAAATATGAATTTGCTATGGCAACATGTACATCAATATCACGAGGACAAAGATAATGGAAAA
 CTTCTGTAGTTGTGGGACATGGAACCAAGAAGCATGTTGAGTGGGCTAAGAAAAACTGCTAGAGC
 GTATCATCTTCAAGACGATGGCACCCAGACAGTCAGGATGGTGTACATTTTTATGGAAAATGGGGATATT
 TGTGATATAACTGACAAACCCAGACAAGTACTGTAAAACATAAGTGTAAAGAATCAGACTCTCCTCATG
 CTGCTACTGTGTATATGCTAGAGCCTCACTCGTCCAGTATATTCTTGGGGTTGAATCTCCAGTAATCTG
 TAAAATCTAGATACAGCTGATGAAAATGGACTTCTTTCTCTCCCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207737 representing NM_025745
 Red=Cloning site Green=Tags(s)

MEEGDGGLRSLVPGGPLLLVLYGLLEASGGGRALPQLSDDIPFRVNWPGTEFSLPTTGVLKEDNYIIMT
 TAHKEKYKICILPLVTSGDEEEKDYKGNPRELLEPLFKQSSCSYRIESYWTYEVCHGKHIRQYHEEKET
 GQKVNIIHEYLLGNMLAKNLLYEKEREAKENEKSNEIPTKNI EQMTPYYPVGMGNGTPCSLQNRPRSST
 VMYICHPEKHEILSVAEVTTCEYEVVILTPLLC SHPKYKFRASPVNDIFCQSLPGSPFKPLTLRQLEQQ
 EEILRVPFRRNKEDLPSAKEERFPAIHKPIAVGSQPVLTVGTTTHISKLTDDQLIKEFLSGSYCFHGGVG
 WWKYEFYKGVHGHYHEDKNGKTSVVVGTWNQEEHVEWAKKNTARAYHLQDDGTQTVRMVSHFYNGNDI
 CDITDKPRQVTVKLCCKESDSPHAVTVYMLEPHSCQYILGVESPVICKILDADENGLLSLPN

TRTRPLE - GFP Tag - V

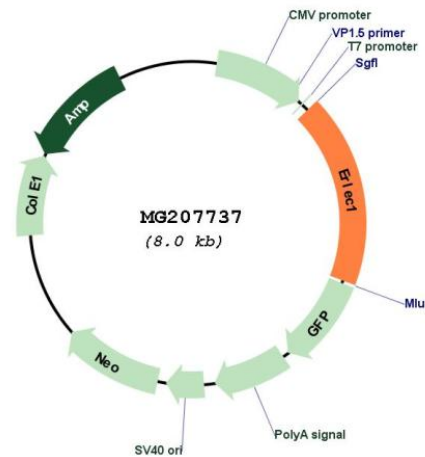
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025745

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_025745.3](#), [NP_080021.3](#)

RefSeq Size: 3501 bp

RefSeq ORF: 1452 bp

Locus ID: 66753

UniProt ID: [Q8VEH8](#)

Cytogenetics: 11 A4

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]