

Product datasheet for **RG225768**

ERLEC1 (NM_001127397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERLEC1 (NM_001127397) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ERLEC1
Synonyms:	C2orf30; CIM; CL24936; CL25084; HEL117; XTP3-B; XTP3TPB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG225768 representing NM_001127397
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAAGGAGCGCGCGCGTACGGAGTCTGGTCCCAGGCGCGCGGTGTTACTGGTCTCTGCGGCC
 TCCTGGAGGCGTCCGGCGCGCGCGAGCCCTTCTCAACTCAGCGATGACATCCCTTCCGAGTCAACTG
 GCCCGCACCGAGTTCTCTGCCCCAACCTGGAGTTTTATATAAAGAAGATAATTATGTCATCATGACA
 ACTGCACATAAAGAAAAATATAATGCATACTTCCCCTTGTGACAAGTGGGGATGAGGAAGAAGAAAAGG
 ATTATAAAGGCCCTAATCCAAGAGAGCTTTTGGAGCCACTATTTAAACAAAGCAGTTGTTCTACAGAAT
 TGAGTCTTATTGGACTTACGAAGTATGTCATGGAAAACACATTCGGCAGTACCATGAAGAGAAAGAACT
 GGTGAGAAAATAAATATTCACGAGTACTACCTGGGAATATGTTGGCCAAGAACCCTTCTATTTGAAAAAG
 AACGAGAAGCAGAAGAAAAGAAAAATCAATGAGATCCCACTAAAAATATCGAAGGTCAGATGACACC
 ATACTATCCTGTGGGAATGGGAAATGGTACACCTTGTAGTTTGAACAGAACCGGCCAGATCAAGTACT
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 ATGAAGTTGTCATTTTGACACCCTCTTGTGCAGTCATCCTAAATATAGGTTTCAGAGCATCTCTGTGAA
 TGACATATTTTGTCAATCACTGCCAGGATCTCCATTTAAGCCCCTCACCTGAGGCGAGCTGGAGCAGCAG
 GAAGAAATACTAAGGGTGCCTTTTAGGAGAAAATAAGAGGAAGATTTGCAATCAACTAAAGAAGAGAGAT
 TTCCAGCGATCCACAAGTCGATTGCTATTGGCTCTCAGCCAGTGTCTACTGTTGGGACAACCCACATATC
 CAAATTGACAGATGACCAACTCATAAAGAGTTTCTTAGTGGTTCTTACTGCTTTCGTGGGGGTGTCCGT
 TGGTGGAAATATGAATTTGCTATGGCAAACATGTACATCAATACCATGAGGACAAGGATAGTGGGAAAA
 CCTCTGTGGTTGTCGGGACATGGAACCAAGAAGACATATTGAATGGGCTAAGAAGAATACTGCTAGAGC
 TTATCATCTTCAAGACGATGGTACCCAGACAGTCAGGTGCAAGAATCAGATTCACCTCATGCTGTTACT
 GTATATATGCTAGAGCCTCACTCCTGTCAATATATTCTTGGGGTTGAATCTCCAGTGATCTGTAATCT
 TAGATACAGCAGATGAAAATGGACTTCTTCTCTCCCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225768 representing NM_001127397
 Red=Cloning site Green=Tags(s)

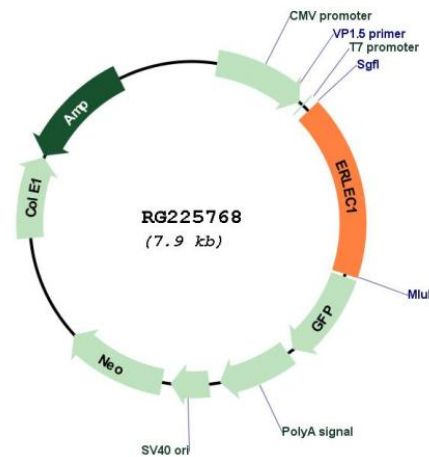
MEEGGGVRS LVPGGPVLLVLCGLLEASGGGRALPQLSDDIPFRVNWPGTEFSLPTTGVL YKEDNYVIMT
 TAHKEKYKILPLVTSGDEEEKDYKGNPRELLEPLFKQSSCSYRIESYWTYEVCHGKHIRQYHEEKET
 GQKINIHEYYLGNMLAKNLLFEKEREAEKEKSNEIPTKNI EGQMTPIYPVGMNGTPCS LKQNRPRSST
 VMYICHPE SKHEILSVAEVTTCEYEVVIL TPLLC SHPKYRFRASPVNDIFCQSLPGSPFKPLTLRQLEQQ
 EEILRVPFRRNKEEDLQSTKEERFPAIHK SIAIGSQPVL TVGTT HISKL TDDQLIKEFLSGSYCFRGGVG
 WWKYEF CYGKHVHQYHEDKDSGKTSVVVGTWNQEEHIEWAKKNTARAYHLQDDGTQTVRCKESDSPHAVT
 VYMLEPHSCQYILGVESPVICKILDADENGLLSLPN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001127397

ORF Size: 1371 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:	<ol style="list-style-type: none">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:	<u>NM_001127397.2</u> , <u>NP_001120869.1</u>
RefSeq Size:	3043 bp
RefSeq ORF:	1374 bp
Locus ID:	27248
UniProt ID:	<u>Q96DZ1</u>
Cytogenetics:	2p16.2
Protein Families:	Secreted Protein
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]