

Product datasheet for **RG225704**

ERLEC1 (NM_001127398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ERLEC1 (NM_001127398) 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)
ORF Nucleotide Sequence:	>RG225704 representing NM_001127398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAAGGAGGCGCGCGGTACGGAGTCTGGTCCCGGGCGGGCCGGTGTACTGGTCTCTGCGGCC
TCCTGGAGGCGTCCGGCGCGGCCGAGCCCTTCTCAACTCAGCGATGACATCCCTTTCCGAGTCAACTG
GCCCGCACCCGAGTTCTCTCTGCCACAACCTGGAGTTTTATATAAAGAAGATAATTATGTCATCATGACA
ACTGCACATAAAGAAAAATATAATGCATACTTCCCCTTGTGACAAGTGGGGATGAGGAAGAAGAAAAGG
ATTATAAAGGCCCTAATCCAAGAGAGCTTTTGGAGCCACTATTTAAACAAAGCAGTTGTTCTACAGAAT
TGAGTCTTATTGGACTTACGAAGTATGTCATGGAAAACACATTCCGGCAGTACCATGAAGAGAAAAGAACT
GGTCAGAAAATAAATATTCACGAGTACTACCTTGGGAATATGTTGGCCAAGAACCCTTCTATTTGAAAAAG
AACGAGAAGCAGAAGAAAAGGAAAAATCAAATGAGATCCCACTAAAAATATCGAAGTCCAGATGACACC
ATACTATCCTGTGGGAATGGGAAATGGTACACCTTGTAGTTTGAACAGAACCCGGCCAGATCAAGTACT
GTGATGTACATATGTCATCCTGAATCTAAGCATGAAATCTTTCAGTAGCTGAAGTTACAACCTTGTGAAT
ATGAAGTTGTCATTTTGACACCACTCTTGTGCAGTCATCTAAATATAGGTTCCAGAGCATCTCCTGTGAA
TGACATATTTGTCAATCACTGCCAGGATCTCCATTTAAGCCCCCTCACCTGAGGCAGCTGGAGCAGCAG
GAAGAAATACTAAGGGTGCCTTTTAGGAGAAATAAGAGGGTGTCCGGTTGGTGAATATGAATTTGCTGCT
ATGGCAAACATGTACATCAATACCATGAGGACAAGGATAGTGGGAAAACCTCTGTGGTTGTCGGGACATG
GAACCAAGAAGAGCATATTGAATGGGCTAAGAAGAATACTGCTAGAGCTTATCATCTTCAAGACGATGGT
ACCCAGACAGTCAGGATGGTGTACATTTTATGGAAATGGAGATATTTGTGATATAACTGACAAACCA
GACAGGTGACTGTAAAATAAAGTGCAAAGAATCAGATTCACCTCATGCTGTTACTGTATATATGCTAGA
GCCTCACTCCTGTCAATATATTCTGGGGTTGAATCTCCAGTGATCTGAAAATCTTAGATACAGCAGAT
GAAAATGGACTTCTTCTCCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225704 representing NM_001127398
 Red=Cloning site Green=Tags(s)

MEEGGGGVRS LVPGGP VLLVLCGLLEASGGGRALPQLSDDIPFRVNWPGTEFSLPTTGVL YKEDNYVIMT
 TAHKEKYKICILPLVTS GDEEEEEKDYKGNPRELLEPLFKQSSCSYRIESYWTYEVCHGKHIRQYHEEKET
 GQKINIHEYYLGNMLAKNLLFEKEREAEKEKSNEIPTKNI EGQMTPIYPVGMGNGTPCSLQNRPRSST
 VMYICHPEKHEILSVAEVTTC EYEVVIL TPLLCSHPKYRFRASPVNDIFCQSLPGSPFKPLTLRQLEQQ
 EEILRVPFRRNKEGVWVKYEF CYGKHVHQYHEDKDSGKTSVVVGTWNQEEHIEWAKNNTARAYHLQDDG
 TQTVRMVSHFYNGDIDCDITDKPRQVTYK LKCKESDSPHAVTVYMLEPHSCQYILGVESPVICKILD TAD
 ENLLSLPN

TRTRPLE – GFP Tag – V

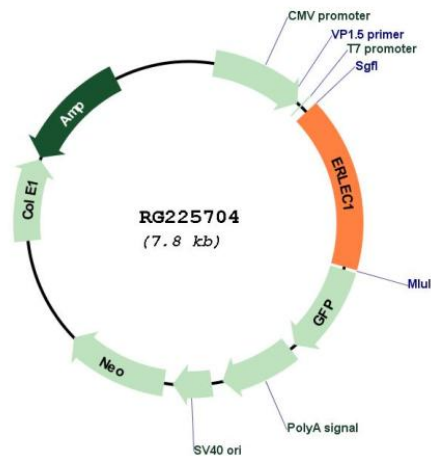
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001127398

ORF Size:	1287 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:	NM_001127398.2 , NP_001120870.1
RefSeq Size:	2443 bp
RefSeq ORF:	1290 bp
Locus ID:	27248
UniProt ID:	Q96DZ1
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]