

## Product datasheet for **RG201486**

### ERLEC1 (NM\_015701) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ERLEC1 (NM_015701) 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)



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**ORF Nucleotide Sequence:**

>RG201486 representing NM\_015701  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGAAGGAGCGCGCGCGTACGGAGTCTGGTCCCAGGCGCGCGCGTGTACTGGTCTCTGCGGCC  
 TCCTGGAGGCGTCCGGCGCGCGCGAGCCCTTCTCAACTCAGCGATGACATCCCTTCCGAGTCAACTG  
 GCCCGCACCGAGTTCTCTGCCCCAACCTGGAGTTTTATATAAAGAAGATAATTATGTCATCATGACA  
 ACTGCACATAAAGAAAAATAAATGCATACTTCCCCTTGTGACAAGTGGGGATGAGGAAGAAGAAAAGG  
 ATTATAAAGGCCCTAATCCAAGAGAGCTTTGGAGCCACTATTTAAACAAAGCAGTTGTTCTACAGAAT  
 TGAGTCTTATTGGACTTACGAAGTATGTCATGGAAAACACATTCGGCAGTACCATGAAGAGAAAGAACT  
 GGTGAGAAAATAAATATTCACGAGTACTACCTGGGAATATGTTGGCCAAGAACCCTTCTATTTGAAAAAG  
 AACGAGAAGCAGAAGAAAAGAAAAATCAAATGAGATTCCTCACTAAAAATATCGAAGGTCAGATGACACC  
 ATACTATCCTGTGGGAATGGGAAATGGTACACCTTGTAGTTTGAACAGAACCGGCCAGATCAAGTACT  
 GTGATGTACATATGTCATCCTGAATCTAAGCATGAAATCTTTCACTAGCTGAAGTTACAACCTTGTGAAT  
 ATGAAGTTGTCATTTTGACACCCTCTTGTGCAGTCACTAAATATAGGTTTCAGAGCATCTCCTGTGAA  
 TGACATATTTTGTCAATCACTGCCAGGATCTCCATTTAAGCCCCTCACCTGAGGCAGCTGGAGCAGCAG  
 GAAGAAATACTAAGGGTGCCTTTTAGGAGAAAATAAGAGGAAGATTTGCAATCACTAAAGAAGAGAGAT  
 TTCCAGCGATCCACAAGTCGATTGCTATTGGCTCTCAGCCAGTGCCTACTGTTGGGACAACCCACATATC  
 CAAATTGACAGATGACCAACTCATAAAGAGTTTCTTAGTGGTCTTACTGCTTTCGTGGGGGTGTCGGT  
 TGGTGGAAATATGAATTTGCTATGGCAAACATGTACATCAATACCATGAGGACAAGGATAGTGGGAAAA  
 CCTCTGTGGTTGTCGGGACATGGAACCAAGAAGACATATTGAATGGGCTAAGAAGAATACTGATAGAGC  
 TTATCATCTTCAAGACGATGGTACCCAGACAGTCAGGATGGTGTACATTTTTATGGAAATGGAGATATT  
 TGTGATATAACTGACAAACCAAGACAGGTGACTGTAAAATAAAGTGCAAAGAATCAGATTCACCTCATG  
 CTGTTACTGTATATGCTAGAGCCTCACTCCTGTCAATATATTCTGGGGTTGAATCTCCAGTGTCTG  
 TAAAATCTTAGATACAGCAGATGAAAATGGACTTCTTCTCTCCCAAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201486 representing NM\_015701  
 Red=Cloning site Green=Tags(s)

MEEGGGVRSLVPGGPVLLVLCGLLEASGGGRALPQLSDDIPFRVNWPGTEFSLPTTGVLKEDNYVIMT  
 TAHKEKYKICILPLVTSGDEEEKDYKGNPRELLEPLFKQSSCSYRIESYWTYEVCHGKHIRQYHEEKET  
 GQKINIHEYLLGNMLAKNLLFEKEREAEKEKSNEIPTKNIHQMTPTYPVGMNGTPCSLKQNRPRSST  
 VMYICHPEKHEILSVAEVTTCEYEVVILTPLLCSHPKYRFRASPVNDIFCQSLPGSPFKPLTLRQLEQQ  
 EEILRVPFRRNKEEDLQSTKEERFPAIHKSIAGSQPVLTGTTTHISKLTDDQLIKEFLSGSYCFRGGVG  
 WWKYEFYKGVHGHYHEDKDSGKTSVVVGTWNQEEHIEWAKKNTARAYHLQDDGTQTVRMVSHFYNGNDI  
 CDITDKPRQVTVKLKCKESDSPHAVTVYMLEPHSCQYILGVESPVICKILDADENGLLSLPN

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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:** 2412 bp

**RefSeq ORF:** 1452 bp

**Locus ID:** 27248

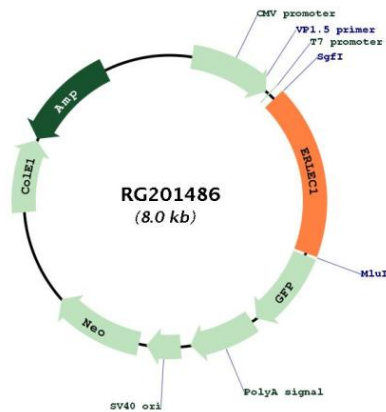
**UniProt ID:** [Q96DZ1](#)

**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]

**Product images:**



Circular map for RG201486