

## Product datasheet for **RG227309**

### **C20orf31 (EDEM2) (NM\_001145025) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C20orf31 (EDEM2) (NM_001145025) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C20orf31
Synonyms:	bA4204.1; C20orf31; C20orf49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227309 representing NM\_001145025  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTTCCGGCTGCTCATCCCCTCGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCCAG  
 GTCCCGACGGCTCCGCGCCAGATCCCGCCACTACAGTTTTCTCTGACTCTAATTGATGACTGGACAC  
 CTTGCTGATTTGGGAATGTCTCAGAATTCAAAGAGTGGTTGAAGTGCTCCAGGACAGCGTGGACTTT  
 GATATTGATGTGAACGCCTCTGTGTTTAAACAAACATTCGAGTGGTAGGAGGACTCCTGTCTGCTCATC  
 TGCTCTCAAGAAGGCTGGGGTGAAGTAGAGGCTGGATGGCCCTGTTCCGGGCCCTCCTGAGAATGGC  
 TGAGGAGGCGGCCGAAAACCTCCCAGCCTTTCAGACCCCACTGGCATGCCATATGGAACAGTGAAC  
 TTACTTCATGGCGTGAACCCAGGAGAGACCCTGTACCTGTACGGCAGGGATTGGGACCTTCATTGTTG  
 AATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGATGCG  
 CCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTG  
 GCCCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAGGAGCCATCCTGC  
 TTCAGGATAAGAAGCTCATGGCCATGTTCTAGAGTATAACAAAGCCATCCGGAACACACCCGCTTCGA  
 TGACTGGTACCTGTGGTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCCCTGGAGGCC  
 TACTGGCCTGGTCTTTCAGAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCAACTACTACA  
 CTGTATGGAAGCAGTTTGGGGGGCTCCCGGAATTCTACAACATTCCTCAGGGATACACAGTGGAGAAGCG  
 AGAGGGTACCCACTTCGGCCAGAACTTATTGAAAGCGCAATGTACCTTACCCTGCCACGGGGGATCCC  
 ACCCTCTAGAACTCGGAAGAGATGCTGTGGAATCCATTGAAAAAATCAGCAAGGTGGAGTGGGATTTG  
 CAACAATCAAAGATCTGCGAGACCACAAGCTGGACAACCGCATGGAGTCGTTCTTCTCGCCGAGACTGT  
 GAAATACCTCTACCTCCTGTTTGACCCAACCACTTCATCCACAACAATGGGTCCACCTTCGACCGGGTG  
 ATCACCCCTATGGGGAGTGCATCCTGGGGGCTGGGGGTACATCTTCAACACAGAAGCTCACCCATCG  
 ACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGTGGAGGACTTGATGAGGGA  
 ATTCTACTCTCTCAAACGGAGCAGGTGCGAAATTCAGAAAAACTGTTAGTTCGGGGCCATGGGAACCT  
 CCAGCAAGGCCAGGAACACTCTTCTCACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCTGCCAAAC  
 AGAAGTCCCCTTCTCAGCTGCCCCAGTCAGCCCTTACCTCCAAGTTGGCATTACTGGACAGGTTTT  
 CCTAGACTCTCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG227309 representing NM\_001145025  
 Red=Cloning site Green=Tags(s)

MPFRLLIPLGLLALLPQHAGPDPGSAAPDPAHYSFSLTLIDALDILLGNVSEFQRVVEVLQDSVDF  
 DIDVNASVFETNIRVVGILLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPAFQPTGMPYGTVN  
 LLHGVPGETPVTCTAGIGTFIVEFATLSSLTGDPVFDVARVALMRLWESRSDIGLVGNHIDVLTGKWW  
 AQDAGIGAGVDSYFEYLKGAILLQDKKLMAMFLEYNKAIIRNYTRFDDWYLVVQMYKGTVSMPVFSLEA  
 YWPGLQSLIGDIDNAMRTFLNYYTVWKQFGLPEFYNIPOGYTVEKREGYPLRPELIESAMYL YRATGDP  
 TLELGRDAVESIEKISKVECGFATIKDLRDHKLDRMESFFLAETVKYLYLLFDPTNFIHNNGSTFDAV  
 ITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRSRKFQKNTVSSGPWEP  
 PARPGTLFSPENHDQARERKPAKQKVPPLLSCPSQPFTSKLALLGQVFLDSS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001145025

**ORF Size:** 1623 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\\_001145025.2](#)

**RefSeq Size:** 1807 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 55741

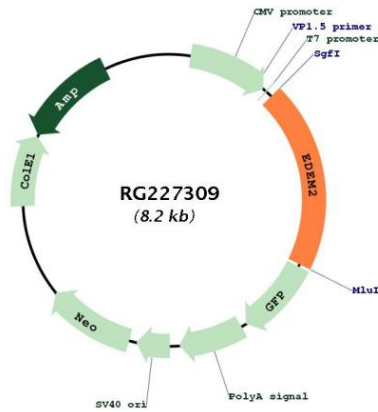
**UniProt ID:** [Q9BV94](#)

**Cytogenetics:** 20q11.22

**Protein Families:** Secreted Protein

**Gene Summary:** In the endoplasmic reticulum (ER), misfolded proteins are retrotranslocated to the cytosol and degraded by the proteasome in a process known as ER-associated degradation (ERAD). EDEM2 belongs to a family of proteins involved in ERAD of glycoproteins (Mast et al., 2005 [PubMed 15537790]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG227309