

## Product datasheet for **RG200124**

### **C20orf31 (EDEM2) (NM\_018217) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C20orf31 (EDEM2) (NM_018217) 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:**

>RG200124 representing NM\_018217  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTTTCCGGCTGCTCATCCCCTCGGCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCCAG  
 GTCCCGACGGCTCCGCGCCAGATCCCGCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTA  
 CGACAGCTACCTGGAGAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACC  
 TGGGGCAGTTTTTCTCTGACTCTAATTGATGCACTGGACACCTTGTGATTTTGGGGAATGTCTCAGAAT  
 TCCAAAGAGTGGTTGAAGTGTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGA  
 AACAAACATTCGAGTGGTAGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAAGTA  
 GAGGCTGGATGGCCCTGTCCGGCCCTCCTGAGAATGGCTGAGGAGGCGGCCGAAAACCTCTCCAG  
 CCTTTAGACCCCACTGGCATGCCATATGGAACAGTGAACCTTACTTCATGGCGTGAACCCAGGAGAGAC  
 CCCTGTACCTGTACGGCAGGGATTGGGACCTTATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGT  
 GACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGATGCGCCTCTGGGAGAGCCGGTCAAGATATCGGGC  
 TGGTCCGCAACCATGATGTGCTCACTGGCAAGTGGGTGGCCAGGACGACAGGCATCGGGCTGGCGT  
 GGACTCCTACTTTGAGTACTTGGTAAAAGGAGCCATCCTGCTTACAGGATAAGAAGCTCATGGCCATGTTT  
 CTAGAGTATAACAAAGCCATCCGGAACACACCCGCTTCGATGACTGGTACCTGTGGGTTTCAAGTGTACA  
 AGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTGGAGGCTACTGGCCTGGTCTTCAAGCCTCATTGG  
 AGACATTGACAAATGCCATGAGGACCTTCTCAACTACTACTGTATGGAAGCAGTTTGGGGGCTCCCG  
 GAATTCACAACATTCCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGCCAGAACTTA  
 TTGAAAGCGCAATGTACCTCTACCGTCCACGGGGATCCACCCTCTAGAAGTGGAAAGAGAGTCTGT  
 GGAATCCATTGAAAAAATCAGCAAGGTGGAGTGGGATTTGCAACAATCAAAGATCTGCGAGACCACAAG  
 CTGGACAACCGCATGGAGTCGTTCTTCCCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAA  
 CCAACTTCATCCACAACATGGGTCCACCTTCGACACGGTATCACCCCTATGGGGAGTGCATCCTGGG  
 GGCTGGGGGTACATCTTCAACACAGAAGCTCACCCATCGACCTGCCGCCCTGCACTGCTGCCAGAGG  
 CTGAAGGAAGAGCAGTGGGAGGTGGAGGACTTGTGAGGGAATTCTACTCTCAAACGGAGCAGGTGGA  
 AATTTAGAAAAACACTGTTAGTTCGGGGCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTCACC  
 AGAAAACCATGACCAGGCAAGGGAGAGGAAGCCTGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGT  
 CAGCCCTCACCTCAAGTTGGCATTACTGGGACAGGTTTTCTAGACTCCTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200124 representing NM\_018217  
 Red=Cloning site Green=Tags(s)

MPFRLLIPLGLLCALLPQHGGAPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELRLPTCDGHDT  
 WGSFSLTLIDALDILLGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKAGVEV  
 EAGWPCSGPLLRMAEEAARKLLPAFQTPTGMPYGTVNLHGVNPGETPVTCTAGIGTFIVEFATLSSLTG  
 DPVFEDEVARVALMRLWESRSDIGLVGNHIDVLTKWVAQDAGIGAGVDSYFEYLKGAAILQDKLMAMF  
 LEYNKAIRNYTRFDDWYLWVQMYKGTVSMFVQSLQSLQSLIGDIDNAMRTFLNYYTVWKQFGGLP  
 EFYNIPIQGYTVEKREGYPLRPELIESAMYLYRATGDPTLLELGRDAVESIEKISKVECGFATIKDLRDHK  
 LDNRMESFFLAETVKYLYLLFDPTNFIHNNGSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQR  
 LKEEQWEVEDLMREFYSLKRSRSKFQKNTVSSGPWEPPARPGTLFSPENHDQARERKPAKQKVPLLSGPS  
 QPFTSKLALLGQVFLDSS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_018217

**ORF Size:** 1734 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\\_018217.1](#), [NP\\_060687.1](#)

**RefSeq Size:** 1885 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 55741

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

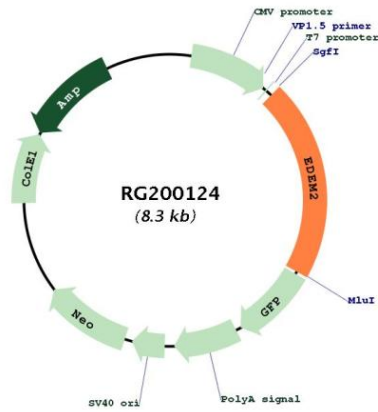
**Cytogenetics:** 20q11.22

**Domains:** Glyco\_hydro\_47

**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 RG200124