

## Product datasheet for **RC201660**

### **POGLUT2 (NM\_024089) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POGLUT2 (NM_024089) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POGLUT2
Synonyms:	EP58; ERp58; KDEL1; KDELC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201660 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTTGGCACTTTGCTACTTTATTGCTCTTTCTGGCGACAGTTCAGCACTCGCCGAGACCGCGGGAG  
 AAAGGCAGCTGAGCCCGAGAAGAGCGAAATATGGGGACCGGGCTAAAAGCAGACGTCGTCCTTCCCGC  
 CCGCTATTTCTATATTCAGGCAGTGGATACATCAGGGAATAAATTCACATCTTCTCCAGGCGAAAAGGTC  
 TTCCAGGTGAAAGTCTCAGCACCAGAGGAGCAATTCAGTGGAGTCCAGGTTTTAGACCGAAAAG  
 ATGGGTCCTTCATAGTAAGATACAGAATGTATGCAAGCTACAAAAATCTGAAGGTGGAAGTTAAATTC  
 AGGGCAACATGTGGCCAAATCCCATATATTTAAAAGGGCCGGTTTACCATGAGAACTGTGACTGTCT  
 CTGCAAGATAGTCAGCCTGGCTACGGGAGATGAACTGCCCTGAAACCATTGCTCAGATTCAGAGAGATC  
 TGGCACATTTCCCTGCTGTGGATCCAGAAAAGATTGCAGTAGAAATCCCAAAAAGATTTGGACAGAGGCA  
 GAGCCTATGCTACTACACCTTAAAGGATAACAAGTTTATATCAAGACTCATGGTGAACATGTAGGTTTT  
 AGAATTTTCATGGATGCCATACTACTTTCTTTGACTAGAAAGGTGAAGATGCCAGATGTGGAGCTCTTTG  
 TTAATTTGGGAGACTGGCCTTTGAAAAAAGAAATCCAATTCAAACATCCATCCGATCTTTTCTGGTG  
 TGGCTCCACAGATTCCAAGGATATCGTGATGCCTACGTACGATTTGACTGATTCTGTTCTGGAAACCATG  
 GGCCGGTAAGTCTGGATATGATGTCCGTGCAAGCTAACACGGTCTCCCTGGGAAAGCAAAAATTC  
 CTGCCGCTGGAGAGGGCGAGACAGCCGAAAGAGAGACTCGAGCTGGTTAAACTCAGTAGAAAACACCC  
 AGAACTCATAGACGCTGCTTCCACCACTTTTCTTTTAAACAGATGAAAACCTGTATGGTCCCATT  
 GTGAAACATATTTCAATTTTGTATTTCTCAAGCATAAGTATCAAATAAATATCGATGCCACTGTAGCAG  
 TTTTACCAATGAGCTGCAGCCCTGAAACACTACATTCCAGTTAAGAGCAACCTGAGCGATCTGCTAGAA  
 AAATTAATGGGCGAAAAGATCACGATGAAGAGGCCAAAAAGATAGCAAAAGCAGGACAAGAATTTGCAA  
 GAAATAATCTCATGGGCGATGACATATTCTGTTATTATTTCAAATTTTCCAGGAATATGCCAATTTACA  
 AGTGAGTGAGCCCAATCCGAGAGGGCATGAAAAGGGTAGAACACAGACTGAGGACGACCTCTCCCT  
 TGTACTTGCCATAGAAAAAGACCAAGATGAACT

**ACCGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC201660 protein sequence  
 Red=Cloning site Green=Tags(s)

MFGTLLLYCFFLATVPALAEETGGERQLSPEKSEIWGPGLKADVLPARYFYIQAVDTSNGKFTSSPGEKV  
 FQKVSAPEEQFTRVGVQVLDKRDGSFIVRYRMYASYKNLKVEVKFQGQHVAKSPYILKGPVYHENCDCP  
 LQDSAOWLREMNCPETIAQIQRDLAHFPAVDPEKIAVEIPKRFGRQSLCHYTLKDNKVYIKTHGEHVGF  
 RIFMDAILLSLTRKVKMPDVELFVNLGDWPLEKKSNSNIHPFISWCGSTDSKDI VMPYDLDTSVLETM  
 GRVSLDMMSVQANTGPPWESKNSTAVWRGRDSRKERLELVKLSRKHPELIDAAFTNFFFKHDENLYGPI  
 VKHISFFDFFKHKYQINIDGTVAAAYRLLPYLLVGDSVVLKQDSIYYEHFYNELQPWKHYIPVKSNSLDLLE  
 KLKWKADHDEEAKKIAKAGQEFARNLMDGDDIFCYFFKLFQEYANLQVSEPIREGMKRVEPQTEDDLFP  
 CTCHRKTKDEL

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6541\\_c11.zip](https://cdn.origene.com/chromatograms/mk6541_c11.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_024089

**ORF Size:** 1506 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_024089.1](#), [NP\\_076994.1](#)

**RefSeq Size:** 2129 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 79070

**UniProt ID:** [Q6UW63](#)

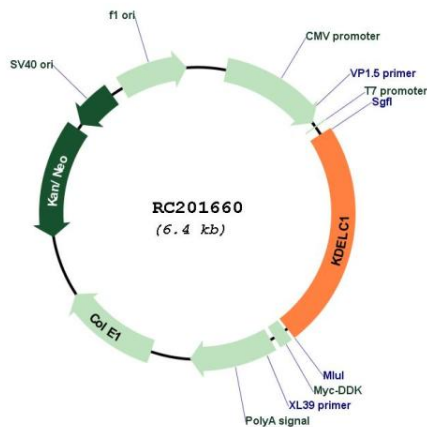
**Cytogenetics:** 13q33.1

**Domains:** Filamin, CAP10

**MW:** 58 kDa

**Gene Summary:** This gene encodes a protein product localized to the lumen of the endoplasmic reticulum. As a member of the endoplasmic reticulum protein family the encoded protein contains a Lys-Asp-Glu-Leu or KDEL motif located at the extreme C-terminus which prevents all endoplasmic reticulum resident proteins from being secreted. Proteins carrying this motif are bound by a receptor in the Golgi apparatus so that the receptor-ligand complex returns to the endoplasmic reticulum. A processed non-transcribed pseudogene located in an intron of a sodium transporter gene on chromosome 5 has been defined for this gene. This gene has multiple transcript variants which are predicted to encode distinct isoforms. [provided by RefSeq, Jan 2016]

**Product images:**



Circular map for RC201660