

Product datasheet for **SC112273**

POGLUT2 (NM_024089) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POGLUT2 (NM_024089) Human Untagged Clone
Tag:	Tag Free
Symbol:	POGLUT2
Synonyms:	EP58; ERp58; KDEL1; KDELC1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024089, the custom clone sequence may differ by one or more nucleotides

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ATGTTTGGCACTTTGCTACTTTATTGCTTCTTTCTGGCGACAGTTCAGCACTCGCCGAGACCGGCGGAG
AAAGGCAGCTGAGCCCGGAGAAGAGCGAAATATGGGGACCCGGGCTAAAAGCAGAGCTCGTCCTTCCCGC
CCGCTATTTCTATATTCAGGCAGTGGATACATCAGGGAATAAATTCACATCTTCTCCAGGCGAAAAGGTC
TTCCAGGTGAAAGTCTCAGCACCAGAGGAGCAATTCAGTAGAGTTGGAGTCCAGGTTTTAGACCGAAAAG
ATGGGTCCTTCATAGTAAGATACAGAATGTATGCAAGCTACAAAAATCTGAAGGTGAAAATTAATTC
AGGGCAACATGTGGCCAAATCCCATATATTTTAAAAGGGCCGGTTACCATGAGAACTGTGACTGTCCT
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TGGCACATTTCCCTGCTGTGGATCCAGAAAAGATTGCAGTAGAAATCCCAAAAAGATTTGGACAGAGGCA
GAGCCTATGCTACTACACCTTAAAGGATAACAAGGTTTATATCAAGACTCATGGTGAACATGTAGGTTTT
AGAATTTTCATGGATGCCATACTACTTTCTTTGACTAGAAAGGTGAAGATGCCAGATGTGGAGCTCTTTG
TTAATTTGGGAGACTGGCCTTTGGAAAAAAGAAATCCAATTCAAACATCCATCCGATCTTTTCTGGTG
TGGCTCCACAGATCCAAGGATATCGTGATGCCTACGTACGATTTGACTGATTCTGTTCTGAAAACCATG
GGCCGGGTAAGTCTGGATATGATGTCGGTCAAGCTAACACGGGTCCTCCCTGGGAAAAGCAAAAATCCA
CTGCCGTCTGGAGAGGGCGAGACAGCCGAAAGAGAGACTCGAGCTGGTTAAACTCAGTAGAAAACACCC
AGAACTCATAGACGCTGCTTTCACCAACTTTTTCTTTTAAACACGATGAAAACCTGTATGGTCCCATT
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AACTTAAATGGGCGAAAGATCACGATGAAGAGGCCAAAAGATAGCAAAAGCAGGACAAGAATTTGCAA
GAAATAATCTCATGGGCGATGACATATTCTGTTATTATTTCAAATTTTCCAGGAATATGCCAATTTACA
AGTGAGTGAGCCCAATCCGAGAGGGCATGAAAAGGTAGAACCACAGACTGAGGACGACCTCTCCCT
TGTAAGTCCATAGGAAAAGACCAAAGATGAACTCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024089 unedited
 GTGCGAATTTTGTAAACGACTCACTATAGGGGCGGCCGATTTCGGCACGAGGGAGCAA
 CTCAAGTTCATCATTGTCTGAGAGAGAGGAGCAGCGCGTTCTCGGCCGGGACAGCAGA
 ACGCCAGGGGACCCTCACCTGGGCGCGCCGGGGCACGGGCTTTGATTGTCTGGGGTCGC
 GGAGACCCGCGCGCCTGCCCTGCACGCCGGGCGGCAACCTTTGCAGTCGCGTTGGCTGT
 GCGATCGGCCGGCGGGTCCCTGCCGAAGGCTCGGCTGCTTCTGTCCACCTTTACACTTC
 TTCATTTATCGGTGGATCATTTCGAGAGTCCGTCTTGTAAATGTTTGGCACTTTGTACT
 TTATTGCTTCTTTCTGGCGACAGTTCCAGCACTCGCCGAGACCGCGGAGAAAGGCAGCT
 GAGCCCGGAGAAGAGCGAAATATGGGGACCCGGGCTAAAAGCAGACGTCGTCCTTCCCGC
 CCGCTATTTCTATATTCAGGCAGTGGATACATCAGGGAATAAATTCACATCTTCTCCAGG
 CGAAAAGGTCTTCCAGGTGAAAGTCTCAGCACCAGAGGCAATTCAGTAGAGTTGGAGT
 CCAGGTTTTAGACCGAAAAGATGGGTCTTCATAGTAAGATACAGAATGTATGCAAGCTA
 CAAAAATCTGAAGGTGAAAATTAATTCGAAGGCAACATGTGGCCAAATCCCCATATAT
 TTTAAAAGGGCCGGTTTACCATGAGAAGTGTGACTGCTCCTGCAAGATAGTGCAGCCT
 GGCTACGGGAGATGAAACTGCCCTGAACCATTGCTCAGATTCAGAGAGATCTGGCACATT
 TCCTGTGTGGNATCCAGAAAAGAAATGCAGTAGAAATCCACAAAGATTGGNACAGAGGC
 AGAGCCTATGTCCTACACCTTAAGATNACAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024089 unedited
 AAACCGTAGAGGGGGCTAAACACCANCGTTGGTTCCAATGTGGTGGNCCAGTACAGTCA
 TGAGGATACTGCTTTTGTAGAAAGTGTTCCTACTGCGCACAATCACACAGATTTTATA
 TTGTCCATGGAATTAATACTTCAAAAAAATCTTCTTTTGTAGTTAAGAAGAGTCTTCAGA
 GCACCATTATTCTAATAGAAGTATTTTGCATATCAGAGTTCATCTTTGGTCTGCAATTA
 AGAAGCAAAATATTTAGAGCTATCAAGAAGTCTTACACAAGTGAAGAAGACTTACATTCC
 TTAATTATTTTCTGTAAGATGAGAGGGAGCCAAGCTGCTGCTAGAGGCTTTTAGGGCT
 TGGGACTATTTCCAGAGGCCAGAGTCAGCTAAGGGTAAAATCACATTGTGTTTCATAGC
 CTACTGATAAGGAACCCAAACATCCATGGCTGTACTACTGTAAGGCCTCATGTTATGA
 ACAGTAGTGGTGAAGACTAGGATAGACAATGAGCAAAAATAAACGAAGCTATCATTCT
 GGCCCTAACTTCTACTACTCAGTGAAGAAACTGGCTGGGTACCTCCTCAATCACGT
 TGATGAAGATAAAATACTGAGCAGGAGTGGAGCAAGGAAGCTGCCAGTCTCACTTAGAGC
 CAAAGTGAGAAGTGTCTGATACCAATCACGGATTGGCGAGGGGGAACCTTTGATTTG
 GCAATCCTTGTATCATTGGCTTTACTGATTTTTATGGCCTTGGAGCACTGACCGAGT
 TACAATGATGACCAACCACCTTTGAGGGCCAGCTGGGTAGTGGTTAATGAGTCTTTTAA
 AACCCAGGCCTTTATTAAGCAGCCAAAATCTGATTTGAAGCAGTGCCGATGGCATGGTGG
 TAATACTCTACAGGAAGATCCA

Restriction Sites:

NotI-NotI

ACCN:

NM_024089

Insert Size:

4780 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_024089.1](#), [NP_076994.1](#)

RefSeq Size: 2082 bp

RefSeq ORF: 1509 bp

Locus ID: 79070

UniProt ID: [Q6UW63](#)

Cytogenetics: 13q33.1

Domains: Filamin, CAP10

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]

Transcript Variant: This variant (1) encodes the longer isoform (1).