

Product datasheet for **SC319596**

KDEL Receptor (KDEL1) (NM_006801) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL Receptor (KDEL1) (NM_006801) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDEL Receptor
Synonyms:	ERD2; ERD2.1; HDEL; PM23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006801.2
 CTCTTCCCAGGCTCCAGCTCCGCCGACGCTCCAGCCTTTGCTCCCCCTCCCAAAGTCCCC
 TCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCAGCTACCCGTTCC
 AGACCAGCAGCCTCGGGGGGCACCCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGC
 CAGGGTCCCCAGCCATGAATCTTCCGATTCTGGGAGACCTCCCACCTCCTCGCC
 ATCATCTTGCTACTGCTCAAAATCTGGAAGTCCCGCTCGTGCCCGGAATTTAGGGAAG
 AGCCAGGTCCTGTTTGGCTGTGGTTCCTACTGCCGATATCTGGACCTTTCACCAACTAC
 ATCTCACTTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTACCACGGTC
 TGGTTGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTACAGAGT
 GAGTTCCTGGTCGTTCCACAGCCATTCTGGCGTTCCTGGTCAATCATGACTTACCCCT
 CTGGAGATCCTCTGGACCTTCTCCATCTACCTGGAGTCAGTGGCCATCTTGCCGAGCTG
 TTCATGGTGAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACTGTTTGCCTA
 GGCGTTTACCGCACGCTCTATCTTCAACTGGATCTGGCGCTACCATTCGAGGGCTTC
 TTCGACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCTCTACTGCGATTTCTC
 TACCTCTATATACCAAAGTCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGG
 TCCTCTCCATCTCTCTCCGAGCAGCGGGAGGAGGAGGAAGGCGGCAGAAGATGAAG
 AGCTTTCCATCCAGGGGTGACTTTTTTAAAGAACCCACCTCTTGTGCTCCCCATCCCGCC
 TCCTGCCGGGTTTCAAGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGG
 CTGTTTGTAGTTTTTGCCTTTTAGACAAGAAAAAAATCTTTCCACTCTTTAGTTTTT
 GATTCTGATGACTCGTTTTTCTTACTCTGTGGCCCAATTTTTATAAAGTGTTTTTGA
 GTGTCCTATGGGCGGGGAGGGTCCAAGATCTTTCCCTTCCCAGGCCCTCGGCTCC
 CTCCCAGATCCCACCCAGCCCACTGGTTGCCAAACTAAATCTGCCGACCCCATC
 TGCCCCACCTCCTGCCATGGCCATGAACCGCGACCCCACTAAATTTCTAGATTGGGGAT
 AGGGAGAAAGGGAGGCCAGGAAGTCTCCCTGATTTTTTTTTCATAGTAATTTTTTTCC
 CCAGAGTTTGAATTTTTTGGTCTTCTCCTGGTTTTTGGCAAATTAGGGGGCCCGGGG
 TCAAGTGCAGGAAAGGGGCTGGCCGAGGATCCCATGGCTCTCACACCATGTTTTTGTAC
 AGAACTGATGGTTGAATCTTTGTCTTGAATAAACAGAAAGAAATGAAACCTTTAA
 AAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_006801
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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_006801.2 , NP_006792.1
RefSeq Size:	1575 bp
RefSeq ORF:	639 bp
Locus ID:	10945
UniProt ID:	P24390
Cytogenetics:	19q13.33
Domains:	ER_lumen_recept
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Vibrio cholerae infection
Gene Summary:	Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells by their continual retrieval from the cis-Golgi, or a pre-Golgi compartment. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually lys-asp-glu-leu (KDEL) in animal cells, and his-asp-glu-leu (HDEL) in <i>S. cerevisiae</i> . This process is mediated by a receptor that recognizes, and binds the tetrapeptide-containing protein, and returns it to the ER. In yeast, the sorting receptor encoded by a single gene, ERD2, which is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. The protein encoded by this gene was the first member of the family to be identified, and it encodes a protein structurally and functionally similar to the yeast ERD2 gene product. [provided by RefSeq, Jul 2008]