

Product datasheet for **SC115813**

KDEL2 (NM_006854) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL2 (NM_006854) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDEL2
Synonyms:	ELP-1; ELP1; ERD2.2; OI21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115813 sequence for NM_006854 edited (data generated by NextGen Sequencing) ATGAACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGCCATCGTCATCCTGCTG CTGAAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTT GCACTGGTCTTCACAACCTCGTTACCTGGATCTTTTACTTCATTTATTTTCATTGTATAAC ACATCTATGAAGTTATCTACCTTGCTGCTCCTATGCCACAGGTACCTGATCTACCTG AAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAGTTTCTGGTGGTC CCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGG ACCTTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGAGCTGTTTATGATCAGCAAG ACTGGGAGGCCGAGACCATCACCACTACCTGTTCTTCTGGGCCTCTATCGTGCT TTGTATCTTGCAACTGGATCTGGCGCTTCTACTTTGAGGGCTTCTTTGACCTCATTGCT GTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTACTGTACATTACA AAAGTACTCAAGGAAAGAAGCTCAGTTTGCCAGCATAA
	Clone variation with respect to NM_006854.3 405 a=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006854 unedited TTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGCTCAGGGGCGCCGCCCTCC TGAGCCGCCAGCCCCGGGGCCGCGCTGCGCCGACCGCCACCGCCGCCGCCATG AACATTTTCCGGCTGACTGGGGACCTGTCCACCTGGCGGCCATCGTCATCCTGCTGCTG AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTCTGGGAAAAGCCAGCTTCTGTTTGA CTGGTCTTCACAACTCGTTACCTGGATCTTTTTACTTCATTTATTTTCATTGTATAACACA TCTATGAAGTTATCTACCTTGCCTGCTCCTATGCCACAGTGACCTGATCTACCTGAAA TTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAGTTTCTGGTGGTCCCT GTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGAGCTGTTTATGATCAGCAAGACT GGGGAGGCCGAGACCATCACCACCCACTACCTGTTCTTCTGNGCCTCTATCGTGCTTTG TATCTTGCAACTGGATCTGGCGTTCTACTTTGAGGGCTCTTTGACCTCATTGCTGTG GTGGCCGCGTANTCCAGACCATCCTATACTGTGACTTCTTACTTGTACATTACANAA GTAACAAGGGAAGAAGCTCAGTTTGCCAGCATAAGTGCCAAAGACATCACCAGCATCTG TCCTTCAGGNTGCTCGNACAGAATTCTTACACAGCANAGGCATAGATGCTGTACGNANAT CAGAACTAACTCTTTGTGCAGATGTCATAGTGGCTCTGTAAAACGCGAGGAAAGAGCC
Restriction Sites:	NotI-NotI
ACCN:	NM_006854
Insert Size:	2190 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:	<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_006854.2 , NP_006845.1
RefSeq Size:	1153 bp
RefSeq ORF:	639 bp
Locus ID:	11014
UniProt ID:	P33947
Cytogenetics:	7p22.1
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 *S. cerevisiae*. 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, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDEL2 was the second member of the family to be identified, and it encodes a protein which is 83% identical to the KDEL1 gene product. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).