

Product datasheet for RC200007

KDEL2 (NM_006854) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL2 (NM_006854) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KDEL2
Synonyms:	ELP-1; ELP1; ERD2.2; OI21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200007 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTGAAGATCT
GGAAGACGCGCTCCTGCGCCGTATTTCTGGGAAAAGCCAGCTTCTGTTGCACTGGTCTTCACAACTCG
TTACCTGGATCTTTTACTTCATTTATTTTCATTGTATAACACATCTATGAAGTTATCTACCTTGCCTGC
TCCTATGCCACAGTGACCTGATCTACCTGAAATTTAAGGCAACCTACGATGAAATCATGATACCTTCC
GAGTGGAGTTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCTCTTGA
GATCCTCTGGACCTTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGAGCTGTTATGATCAGCAAG
ACTGGGGAGGCCGAGACCATCACCACTACCTGTTCTTCTGGGCCTCTATCGTGCTTTGTATCTTG
TCAACTGGATCTGGCGCTTCTACTTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCA
GACCATCTATACTGTGACTTCTTCTACTTGTACATTACAAAAGTACTCAAGGAAAGAAGCTCAGTTTG
CCAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_006854.2](#), [NP_006845.1](#)

RefSeq Size: 2874 bp

RefSeq ORF: 639 bp

Locus ID: 11014

UniProt ID: [P33947](#)

Cytogenetics: 7p22.1

Domains: ER_lumen_recept

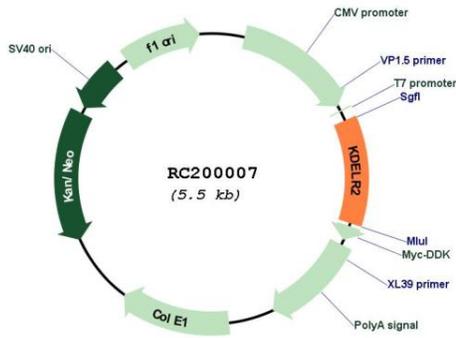
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Vibrio cholerae infection

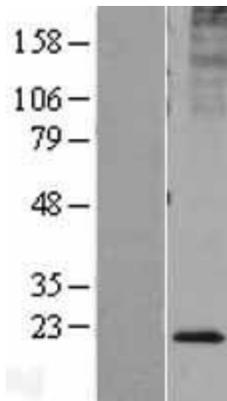
MW: 24.4 kDa

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]

Product images:



Circular map for RC200007



Western blot validation of overexpression lysate (Cat# [LY402052]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200007 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).