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Product datasheet for RC205880

KDEL Receptor (KDELR1) (NM_006801) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL Receptor (KDELR1) (NM_006801) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KDEL Receptor
Synonyms:	ERD2; ERD2.1; HDEL; PM23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC205880 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGAATCTCTTCCGATTCCTGGGAGACCTCTCCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCT GGAAGTCCCGCTCGTGGCGCCGGAATTTCAGGGAAGAGCCAGGTCCTGTTGCTGTGGTGTTCACTGCCCG ATATCTGGACCTCTTCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGC TCCTTCACCACGGTCTGGTTGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTCA GAGTGGAGTTCCTGGTCGTTCCCACAGCCATTCTGGCGTTCCTGGTCAATCATGACTTCACCCCTCTGGA GATCCTCTGGACCTTCTCCATCTACCTGGAGTCAGTGGCCATCTTGCCGCAGCTGTTCATGGTGAGCAAG ACCGGCGAGGCCGAGACCATCACCAGCCACTACTTGTTTGCGCTAGGCGTTTACCGCACGCCTCTATCTT TCAACTGGATCTGGCGCTACCATTCTGGAGGGCTTCTTCGACCTCATGGCAGGCCTGGTCCA GACAGTCCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAGTCCTAAAGGGGAAGAAGTTGAGTTTG CCGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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	Receptor (KDELR1) (NM_006801) Human Tagged ORF Clone – RC205880
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:	<u>NM 006801.3</u>
RefSeq Size:	1575 bp
RefSeq ORF:	639 bp
Locus ID:	10945
UniProt ID:	<u>P24390</u>
Cytogenetics:	19q13.33
Domains:	ER_lumen_recept
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Vibrio cholerae infection
MW:	24.5 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, 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

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gene product. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC205880



Western blot validation of overexpression lysate (Cat# [LY416412]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205880 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified KDELR1 protein (Cat# [TP305880]). The protein was produced from HEK293T cells transfected with KDELR1 cDNA clone (Cat# RC205880) using MegaTran 2.0 (Cat# [TT210002]).

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