

Product datasheet for **RC201571**

KDEL3 (NM_006855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL3 (NM_006855) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KDEL3
Synonyms:	ERD2L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201571 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGTGTTCCGAATCCTCGGCGACCTGAGCCACCTCCTGGCCATGATCTTGCTGCTGGGAAGATCT
GGAGGTCCAAGTCTGCAAGGGCATCTCTGGGAAGAGCCAGATCCTGTTGCTCTCGTCTTCACCACCAG
GTACCTGGACCTGTTACCAACTTCATCTCCATCTACAACACAGTAATGAAGGTGGTTTTCTCCTCTGT
GCCTATGTTACAGTGATATATATGGGAAATCCGTAAAACCTTTGACAGTGAGAATGACACATTCC
GCCTGGAGTTTCTCTGGTCCCAGTCATTGGCCTTTCCTTCTGAAACTACAGTTTCACTCTGCTGGA
GATCCTCTGGACTTTCTATCTATCTGGAATCAGTGGCTATCCTGCCCCAGCTCTTCATGATCAGCAAG
ACTGGAGAGGCTGAGACCATAACTACTCACTACCTGTTCTTTCTGGGTCTGTACCGGGCACTCTACCTGG
CTAACTGGATCAGGCGGTACCAGACTGAGAATTTCTATGACCAAATTGCAGTCGTGTCTGGAGTAGTACA
AACCATCTTCTACTGTGACTTCTTCTACTTGTATGTGACCAAAGTCCTTAAGGGAAGAAGTTAAGTCTT
CCAATGCCAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201571 protein sequence
 Red=Cloning site Green=Tags(s)

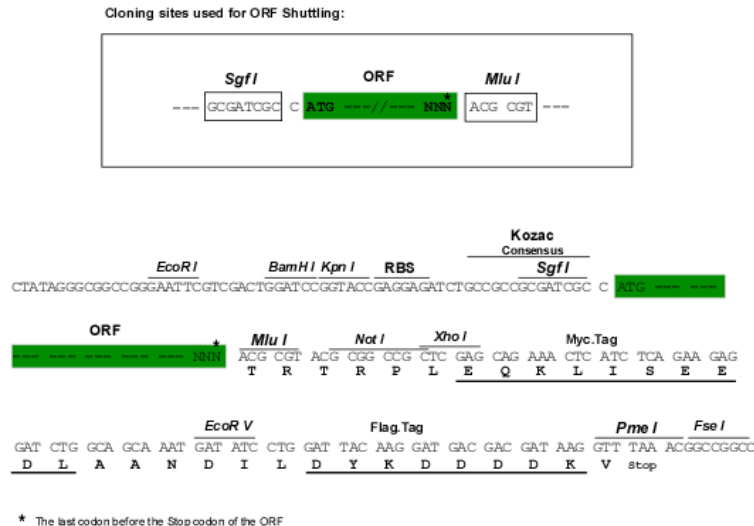
MNVFRILGDLSHLLAMILLGKIWRSCCKGISGKSQILFALVFTRYLDLFTNFISIIYNTVMKVVFLLC
 AYTVMYIYGKFRKTFDSENDTRLEFLLVPVIGLSFLENYSFTLLEILWTFISIYESVAILPQLFMISK
 TGEAETITTHYLFFLGLYRALYLANWIRRYQTENFYDQIAVVSQVQTFYCDFFLYVTKVLKGGKLSL
 PMPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6301_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006855

ORF Size: 642 bp

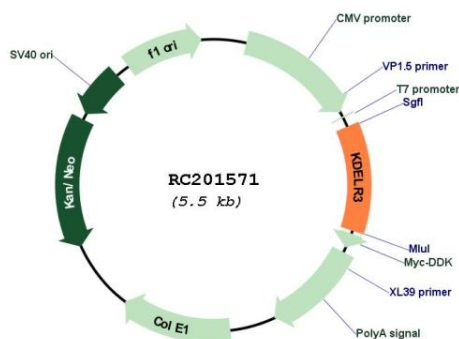
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

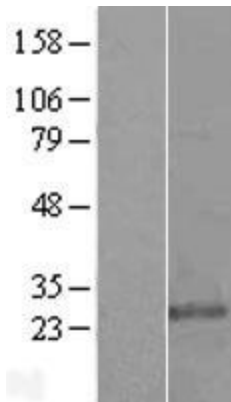
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_006855.4</u>
RefSeq Size:	1744 bp
RefSeq ORF:	645 bp
Locus ID:	11015
UniProt ID:	<u>O43731</u>
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Vibrio cholerae infection
MW:	25 kDa
Gene Summary:	<p>This gene encodes a member of the KDEL endoplasmic reticulum protein retention receptor family. 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, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDEL3 was the third member of the family to be identified. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p>

Product images:



Circular map for RC201571



Western blot validation of overexpression lysate (Cat# [LY416348]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201571 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).