

Product datasheet for **RG216726**

KDEL3 (NM_016657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL3 (NM_016657) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDEL3
Synonyms:	ERD2L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216726 representing NM_016657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGTGTTCCGAATCCTCGGCACCTGAGCCACCTCCTGGCCATGATCTTGCTGCTGGGAAGATCT
GGAGGTCCAAGTGCTGCAAGGGCATCTCTGGGAAGAGCCAGATCCTGTTTGCTCTCGTCTTACCACCAG
GTACCTGGACCTGTTACCAACTTCATCTCCATCTACAACACAGTAATGAAGGTGGTTTTCTCCTCTGT
GCCTATGTTACAGTGACATGATATATGGGAAATTCCTGAAAACCTTTGACAGTGAGAATGACACATTCC
GCCTGGAGTTTCTCTGGTCCCAGTCATTGGCCTTTCCTTCTGAAAACACTACAGTTTCACTCTGCTGGA
GATCCTCTGGACTTTCTCTATCTATCTGGAATCAGTGGCTATCCTGCCCCAGCTTTCATGATCAGCAAG
ACTGGAGAGGCTGAGACCATAACTACTACTACCTGTTCTTTCTGGGTCTGTACCGGGCACTCTACCTGG
CTAACTGGATCAGGCGGTACCAGACTGAGAATTTCTATGACCAAATTCAGTTCGTCTGGAGTAGTACA
AACCATCTTCTACTGTGACTTCTTCTACTTGTATGGGACCAAAGGTAGGTCCTGGGATGACAGCAATGCT
GACTGGCCTAAGGAGTTACTCATCCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216726 representing NM_016657
 Red=Cloning site Green=Tags(s)

MNVFRILGDLSHLLAMILLGKIWRKCKCKGISGKSQILFALVFTRRYLDLFTNFISIIYNTVMKVVFLLC
 AYTVMYIYGKFRKTFDSENDTRLEFLLVPVIGLSFLENYSFTLLEILWTFESIYLESVAILPQLFMISK
 TGEAETITTHYLFFLLGLYRALYLANWIRRYQTENFYDQIAVSVGVVQTFYCDFYLYGTKGRSDDNSA
 DTGLRSYSSI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016657

ORF Size: 660 bp

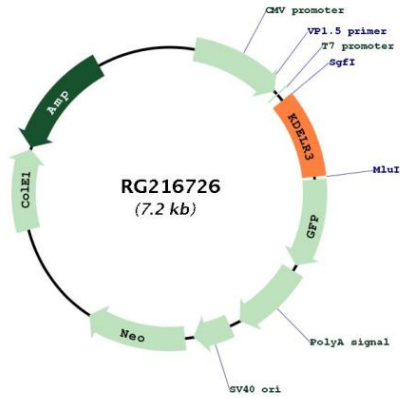
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.
RefSeq:	NM_016657.1 , NP_057839.1
RefSeq Size:	929 bp
RefSeq ORF:	663 bp
Locus ID:	11015
UniProt ID:	O43731
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Vibrio cholerae infection
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. KDELR3 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 RG216726