

Product datasheet for **SC122762**

KDEL3 (NM_006855) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDEL3 (NM_006855) Human Untagged Clone
Tag:	Tag Free
Symbol:	KDEL3
Synonyms:	ERD2L3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_006855 edited
 GGCGCGCGGGTGCATCGCGGAGCTGTGAGGCGCAGGCAGGGCTCTGGGGCACCTAGAGA
 CCGGGGCCGAGACGTGGCAGCCGCCCTGCCCGCCAGAAAGTTTCTAGAAAGTTTGCTGG
 GCGCGGGCGCACGACTGACTGGCTGGACCATGAACGTGTTCCGAATCCTCGGCGACCTGA
 GCCACCTCCTGGCCATGATCTTGCTGCTGGGAAGATCTGGAGGTCCAAGTGCTGCAAGG
 GCATCTCTGGGAAGAGCCAGATCCTGTTTGTCTCGTCTTACCACCAGGTACCTGGACC
 TGTTACCAACTTCATCTCCATCTACAACACAGTAATGAAGGTGGTTTTTCTCCTCTGTG
 CCTATGTTACAGTGATACATGATATATGGGAAATCCGTAAAACTTTTGACAGTGAGAATG
 ACACATCCCGCCTGGAGTTTCTTCTGGTCCCAGTCATTGGCCTTTCTTCTTAAAACT
 ACAGTTTCACTCTGCTGGAGATCCTCTGGACTTCTCTATCTATCTGGAATCAGTGGCTA
 TCCTGCCCGAGCTTTCATGATCAGCAAGACTGGAGAGGCTGAGACCATAACTACTCACT
 ACCTGTTCTTTCTGGGTCTGTACCGGGCACTCTACCTGGCTAACTGGATCAGGCGGTACC
 AGACTGAGAAATTTCTATGACCAAATTCAGTCGTGTCTGGAGTAGTACAAACCATCTTCT
 ACTGTGACTTCTTACTTGTATGTGACCAAAGTCCTTAAGGGAAAGAAGTTAAGTCTTC
 CAATGCCAATCTGAGGACCTTCAGAGACAGTCTACGCCTTAACAAGCACATGAAGGAAAC
 TATTTTGAATGTTCTCTTTGGCAACTTATCCATAAATTTGGGATCAAATGTTAAAAACCAGA
 AAAGTGTTTAGTGTGGATTTTCAGCAAAACCTGATCATCCACCCAGAAAGACCTTCTCATC
 AATAGATCGCCCTTAAAGACCCATTGTAAGGTCATAAAAAACCTCGGCCAACTGCACAAA
 GATGGTGCCTCACTGCAACAAGAAACCTTAAGGTGCTTACCGACGAAATAAAAACATA
 AATGATTGTTCTCCAAGGCTGAGGGCAAGACTCATGATGAGCAAGTCAACCCCAATCTG
 GAACAATGTCCCTCCTCTAGAAATGTCCAACCTAAAGACCAGTTAAAATATTAGGGTACG
 TTCTTGTAATTTCCACTTCCAGGTAGATGACCAAATTTAGGTGGTCAAGATATAAAGG
 TGACAGCTAGTTTTAAGTGTGAAACTTATTTCACTTTCACACTGCCTTCAGGCCAGAAGC
 AAACCAAATTTACCAGGTTTGGCTGGAGGAGTTTTGTGACTCATCTTTTACTGGTTTGAA
 TTTTTTCAAACAGTGGCTGATACCTGCCTTGTACTTAGTACCTTAATACCAATAACCTA
 ATGGTACTTAGGCGAGTACCATTGACAACTCACTGTTTTACTTATGAGCAGATACAGAT
 ATATCCAAACCTTACCTACTAGGTATCCTGCTAGGGTTTTCAATCCAATTTCTGTATT
 AAGTTTTTCTTTTCTAGTTTGGTGGCAAAGTAAATCAGTCAATCCAATATCCCCATCT
 TTGTCTTGAAACAAAACTGTTTTAAGACGTCTACGTTGAATTTTACAGAGAATTAAGCA
 ATAAAAGCTCACACCTTATTGTCAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006855 unedited
 NAAGGTCAANAATTTGTAATACGACTCACTATAGGGACCGCCGCGATTCCCGGGATATCG
 TCGACCCACGCGTCCGGGCGCGGGTGCATCGCGGAGCTGTGAGGCGCAGGCAGGGCT
 CTGGGGCACCTAGAGACCGGGCCGGAGACGTGGCAGCCGCCCTGCCCGCCAGAAAGTTT
 CCTAGAAGTTTGTGGGCGGGGCGCACGACTGACTGGCTGGACCATGAACGTGTTCCGA
 ATCCTCGGCGACCTGAGCCACCTCCTGGCCATGATCTTGCTGCTGGGAAGATCTGGAGG
 TCCAAGTGTGCAAGGGCATCTCTGGGAAGAGCCAGATCCTGTTTGTCTCGTCTTACC
 ACCAGGTACCTGGACCTGTTACCAACTTCATCTCCATCTACAACACAGTAATGAAGGTG
 GTTTTTCTCCTCTGTGCCTATGTTACAGTGATACATGATATATGGGAAATCCGTAAAACT
 TTTGACAGTGAGAATGACACATTCCGCCTGGAGTTTCTTCTGGTCCCAGTCATTGGCCTT
 TCCTTCTTAAAACTACAGTTTCACTCTGCTGGAGATCCTCTGGACTTCTCTATCTAT
 CTGGAATCAGTGGCTATCCTGCCCGAGCTTTCATGATCAGCAAGACTGGAGAGGCTGAG
 ACCATAACTACTACTACCTGTTCTTTCTGGTCTGTACCGGGCACTCTACCTGGCTAAC
 TGGATCANGCNGTACCAGACTGAGAATTTCTATGACCAAATTCAGTCGTGTCTGGAGTA
 GTACAAACCATCTTACTGTGACTTCTTACTTGTATGTGACCAAAGTCTTAAAGGG
 AAAGAAGTTAAGTCTTCAATGGCCATCTGAGGACCTTCAGAGACAGTCTACGCCTTAAC
 A

Restriction Sites: Please inquire
ACCN: NM_006855

Insert Size:	1723 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_006855.2 , NP_006846.1
RefSeq Size:	1705 bp
RefSeq ORF:	645 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. KDEL3 was the third member of the family to be identified. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>