

Product datasheet for **RC201571L2V**

KDEL3 (NM_006855) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | KDEL3 (NM_006855) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | KDEL3 |
| Synonyms: | ERD2L3 |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-mGFP (PS100071) |
| Tag: | mGFP |
| ACCN: | NM_006855 |
| ORF Size: | 642 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC201571). |
| 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. |
| RefSeq: | NM_006855.2 |
| RefSeq Size: | 1744 bp |
| RefSeq ORF: | 645 bp |
| Locus ID: | 11015 |
| UniProt ID: | O43731 |
| Cytogenetics: | 22q13.1 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Vibrio cholerae infection |



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MW: 25 kDa

Gene Summary: 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 *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. KDEL3 was the third member of the family to be identified. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]