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Product datasheet for MR222438L3V

Otud4 (NM_001081164) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Otud4 (NM_001081164) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Otud4
Synonyms:	4930431L18Rik; AI449692; D8Ertd69e; mKIAA1046
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001081164
ORF Size:	3324 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR222438).
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_001081164.1, NP_001074633.1
RefSeq Size:	7324 bp
RefSeq ORF:	3321 bp
Locus ID:	73945
UniProt ID:	B2RRE7
Cytogenetics:	8 37.74 cM

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Gene Summary: Deubiquitinase which hydrolyzes the isopeptide bond between the ubiquitin C-terminus and the lysine epsilon-amino group of the target protein. May negatively regulate inflammatory and pathogen recognition signaling in innate immune response. Upon phosphorylation at Ser-202 and Ser-204 residues, via IL-1 receptor and Toll-like receptor signaling pathway, specifically deubiquitinates 'Lys-63'-polyubiquitinated MYD88 adapter protein triggering down-regulation of NF-kappa-B-dependent transcription of inflammatory mediators (PubMed:29395066). Independently of the catalytic activity, acts as a scaffold for alternative deubiquitinases to assemble specific deubiquitinase-substrate complexes. Associates with USP7 and USP9X deubiquitinases to stabilize alkylation repair enzyme ALKBH3, thereby promoting the repair of alkylated DNA lesions (By similarity).[UniProtKB/Swiss-Prot Function]