

Product datasheet for **MR219426L4V**

IL10ra (NM_008348) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	IL10ra (NM_008348) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	IL10ra
Synonyms:	AW553859; CDw210; CDw210a; IL-10R1; IL-10RA; IL10r; mL-10R
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_008348
ORF Size:	1725 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR219426).
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_008348.2
RefSeq Size:	3493 bp
RefSeq ORF:	1728 bp
Locus ID:	16154
UniProt ID:	Q61727
Cytogenetics:	9 24.84 cM



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Gene Summary:

Cell surface receptor for the cytokine IL10 that participates in IL10-mediated anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Upon binding to IL10, induces a conformational change in IL10RB, allowing IL10RB to bind IL10 as well. In turn, the heterotetrameric assembly complex, composed of two subunits of IL10RA and IL10RB, activates the kinases JAK1 and TYK2 that are constitutively associated with IL10RA and IL10RB respectively. These kinases then phosphorylate specific tyrosine residues in the intracellular domain in IL10RA leading to the recruitment and subsequent phosphorylation of STAT3 (PubMed:8910398). Once phosphorylated, STAT3 homodimerizes, translocates to the nucleus and activates the expression of anti-inflammatory genes. In addition, IL10RA-mediated activation of STAT3 inhibits starvation-induced autophagy (By similarity). [UniProtKB/Swiss-Prot Function]