

## Product datasheet for **MR224546L4V**

### Ccl20 (NM\_016960) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Ccl20 (NM_016960) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ccl20
Synonyms:	CKb4; exodus-1; LARC; MIP-3A; MIP-3[a]; MIP3A; Scya20; ST38
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_016960
ORF Size:	291 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224546).
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. <a href="#">More info</a>
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:	<a href="#">NM_016960.2</a> , <a href="#">NP_058656.1</a>
RefSeq Size:	852 bp
RefSeq ORF:	294 bp
Locus ID:	20297
UniProt ID:	<a href="#">O89093</a>
Cytogenetics:	1 42.69 cM


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**Gene Summary:**

Acts as a ligand for C-C chemokine receptor CCR6. Signals through binding and activation of CCR6 and induces a strong chemotactic response and mobilization of intracellular calcium ions (PubMed:9862452, PubMed:20068036). The ligand-receptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector/memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and autoimmune diseases (PubMed:21376174). CCL20 acts as a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes (By similarity). Involved in the recruitment of both the proinflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation (PubMed:19050256). Required for optimal migration of thymic natural regulatory T cells (nTregs) and DN1 early thymocyte progenitor cells (PubMed:24638065). Positively regulates sperm motility and chemotaxis via its binding to CCR6 which triggers Ca<sup>2+</sup> mobilization in the sperm which is important for its motility (PubMed:25122636). May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells (PubMed:10064080). [UniProtKB/Swiss-Prot Function]