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# Product datasheet for MR225185L3V

## Ch25h (NM_009890) Mouse Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Ch25h (NM_009890) Mouse Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Ch25h |
| **Synonyms:** | AI462618; m25OH |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_009890 |
| **ORF Size:** | 897 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(MR225185). |
| **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_009890.1 |
| **RefSeq Size:** | 1366 bp |
| **RefSeq ORF:** | 897 bp |
| **Locus ID:** | 12642 |
| **UniProt ID:** | Q9Z0F5 |
| **Cytogenetics:** | 19 C1 |

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**Gene Summary:** Catalyzes the formation of 25-hydroxycholesterol from cholesterol, leading to repress cholesterol biosynthetic enzymes (PubMed:9852097). Plays a key role in cell positioning and movement in lymphoid tissues: 25-hydroxycholesterol is an intermediate in biosynthesis of 7-alpha,25-dihydroxycholesterol (7-alpha,25-OHC), an oxysterol that acts as a ligand for the G protein-coupled receptor GPR183/EBI2, a chemotactic receptor for a number of lymphoid cells (PubMed:22999953). May play an important role in regulating lipid metabolism by synthesizing a corepressor that blocks sterol regulatory element binding protein (SREBP) processing (PubMed:9852097). In testis, production of 25-hydroxycholesterol by macrophages may play a role in Leydig cell differentiation (PubMed:9852097). [UniProtKB/Swiss-Prot Function]