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# Product datasheet for MR203162L4V

## Fam20c (NM_030565) Mouse Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Symbol:** | Fam20c |
| **Synonyms:** | C76981; DMP-4; DMP4; GEF-CK; mKIAA4081 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_030565 |
| **ORF Size:** | 747 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(MR203162). |
| **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_030565.5 |
| **RefSeq Size:** | 3001 bp |
| **RefSeq ORF:** | 1740 bp |
| **Locus ID:** | 80752 |
| **UniProt ID:** | Q5MJS3 |
| **Cytogenetics:** | 5 G2 |

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**Gene Summary:** Golgi serine/threonine protein kinase that phosphorylates secretory pathway proteins within Ser-x-Glu/pSer motifs and plays a key role in biomineralization of bones and teeth (PubMed:22900076, PubMed:22732358, PubMed:25789606). Constitutes the main protein kinase for extracellular proteins, generating the majority of the extracellular phosphoproteome (By similarity). Mainly phosphorylates proteins within the Ser-x-Glu/pSer motif, but also displays a broader substrate specificity (By similarity). Phosphorylates casein as well as a number of proteins involved in biomineralization such as AMELX, AMTN, ENAM and SPP1 (PubMed:25789606). In addition to its role in biomineralization, also plays a role in lipid homeostasis, wound healing and cell migration and adhesion (By similarity).[UniProtKB/Swiss-Prot Function]