

Product datasheet for **MR223303L4V**

Casr (NM_013803) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Casr (NM_013803) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Casr
Synonyms:	CaR; Gprc2a
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_013803
ORF Size:	3237 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR223303).
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_013803.2
RefSeq Size:	4549 bp
RefSeq ORF:	3240 bp
Locus ID:	12374
UniProt ID:	Q9QY96
Cytogenetics:	16 25.57 cM



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Gene Summary:

G-protein-coupled receptor that senses changes in the extracellular concentration of calcium ions and plays a key role in maintaining calcium homeostasis (By similarity). Senses fluctuations in the circulating calcium concentration and modulates the production of parathyroid hormone (PTH) in parathyroid glands (PubMed:7493018). The activity of this receptor is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system (By similarity). The G-protein-coupled receptor activity is activated by a co-agonist mechanism: aromatic amino acids, such as Trp or Phe, act concertedly with divalent cations, such as calcium or magnesium, to achieve full receptor activation (By similarity). [UniProtKB/Swiss-Prot Function]