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Product datasheet for MR216699L3V

Rspo2 (NM_172815) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Rspo2 (NM_172815) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Rspo2
Synonyms:	2610028F08Rik; AA673245; D430027K22; ftls
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_172815
ORF Size:	729 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR216699).`
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_172815.3, NP_766403.1
RefSeq Size:	3340 bp
RefSeq ORF:	732 bp
Locus ID:	239405
UniProt ID:	Q8BFU0
Cytogenetics:	15 16.73 cM

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Gene Summary: Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors. Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. Also regulates the canonical Wnt/beta-catenin-dependent pathway and non-canonical Wnt signaling by acting as an inhibitor of ZNRF3, an important regulator of the Wnt signaling pathway. Probably also acts as a ligand for frizzled and LRP receptors (PubMed:21693646). During embryonic development, plays a crucial role in limb specification, amplifying the Wnt signaling pathway independently of LGR4-6 receptors, possibly by acting as a direct antagonistic ligand to RNF43 and ZNRF3, hence governing the number of limbs an embryo should form (By similarity). [UniProtKB/Swiss-Prot Function]