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Product datasheet for MR216435L3V

Sycp2 (NM_177191) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Sycp2 (NM_177191) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Sycp2
Synonyms:	3830402K23Rik; 4930518F03Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_177191
ORF Size:	4500 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR216435).`
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_177191.3, NP_796165.2
RefSeq Size:	5688 bp
RefSeq ORF:	4503 bp
Locus ID:	320558
UniProt ID:	Q9CUU3
Cytogenetics:	2 H4

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Gene Summary: Major component of the axial/lateral elements of synaptonemal complexes (SCS) during meiotic prophase. Plays a role in the assembly of synaptonemal complexes (PubMed:16717126). Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility (PubMed:16717126). Required for insertion of SYCP3 into synaptonemal complexes (PubMed:16717126). May be involved in the organization of chromatin by temporarily binding to DNA scaffold attachment regions. Requires SYCP3, but not SYCP1, in order to be incorporated into the axial/lateral elements.[UniProtKB/Swiss-Prot Function]