

## Product datasheet for **MR210897L4V**

### **Smarcad1 (BC042442) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Smarcad1 (BC042442) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Smarcad1
Synonyms:	AV081750; AW226546; D6Pas1; Etl1; mKIAA1122
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	BC042442
ORF Size:	2508 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210897).
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. <a href="#">More info</a>
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:	<a href="#">BC042442.1</a>
RefSeq Size:	4193 bp
RefSeq ORF:	2510 bp
Locus ID:	13990
Cytogenetics:	6 30.11 cM



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**Gene Summary:**

DNA helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity and is both required for DNA repair and heterochromatin organization. Promotes DNA end resection of double-strand breaks (DSBs) following DNA damage: probably acts by weakening histone DNA interactions in nucleosomes flanking DSBs. Required for the restoration of heterochromatin organization after replication. Acts at replication sites to facilitate the maintenance of heterochromatin by directing H3 and H4 histones deacetylation, H3 'Lys-9' trimethylation (H3K9me3) and restoration of silencing (By similarity).[UniProtKB/Swiss-Prot Function]