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Product datasheet for MC229020

Smarcad1 (NM_001253392) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smarcad1 (NM_001253392) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smarcad1
Synonyms:	AV081750; AW226546; D6Pas1; Etl1; mKIAA1122
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC229020 representing NM_001253392
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGGAGCCATTGCTGCTGCCTTGCTGATGTTTGGTGATGCAGGTGGTGGACCCAGGAAAAGGAAAT
TATCTTCTTCTTCTGAGGAGGATGACGTTAATGATGATCAGTCTGTAAAACAGCCGCGAGGGGACCGTGG
AGAAGAATCAAATGAGTCTGCAGAAGCCAGCAGCAACTGGGAAAAGCAAGAAAGTATTGTGTTGAAATTG
CAAAAGGAATTTCCAAATTTTGATAAACAGGAATTAAGAGAAGTGCTTAAGGAGCATGAGTGGATGTACA
CAGAAGCCTTGGAGTCTCTGAAAGTGTTTGCGGAAGATCAAGACGTGCAGTGTGCTTCACAAAGTGAAGT
TACAAATGGAAAAGAAGTTGCAAGGAATCAAAATTATTCTAAAAATGCAACTAAAATAAAAATGAAACAG
AAAATTTCCGTGAAACCACAAAATGGCTTTAACAAGAAACGTAAGAAAAATGTATTTAATCCTAAGAAAG
CCGTAGAGGACTCTGAGTACGATTCAGGTTCTGATGCTGGGAGCTCACTGGATGAGGACTATAGCAGTTG
TGAAGAAGTGATGGAGGACGGCTATAAAGGCAAAATTCTTCATTTCCTTCAAGTTTCTTCAATTGCTGAA
CTGACTTTGATTCCTAAGTGTTCTCAGAAAAAGGCTCAGAAAATAACAGAACTCCGGCCCTTTAATAATT
GGGAAGCTCTGTTTACAAAGATGTCTAAAATCAATGGCCTATCTGAAGATTTGATATGGAATTGCAAAAC
GGTAATTCAAGAAAGGGACGTAGTTATAAGACTTATGAACAAATGTGAGGACATTTCAAATAAACTGACC
AAACAAGTTACGATGCTCACCGGGAATGGAGGCGGATGGAACAGAGAACAGCCCTCCCTTCTAAACCAAA
GTTTGTCACTCAAGCCCTATCAGAAGGTTGGGTTGAACTGGCTGGCGTTGGTGCATAAGCATGGACTTAA
TGGCATTCTGGCAGACGAAATGGGCCTAGGAAAAACCATTCAAGCCATTGCATTCCTGGCATACCTCTTT
CAAGAGGGTAATAAAGGGCCTCATTTGATTGTTGTTCCAGCCTCCACCATAGATAACTGGTTAAGAGAAG
TTAACTTATGGTGCCCCAGTTTAAATGTGCTCTGTTACTATGGTTCTCAAGAAGAGCGTAAGCAAATTAG
ATTCAACATCCATAATAAGTATGAGGATTACAATGTAATTGTTACAACGTATAATTGTGCAATCAGCAGC
TCTGATGACCGCAGTCTCTTTCGACGACTGAAACTGAATTATGCAATTTTTGATGAAGGCCATATGCTGA
AGAATATGGGCTCTATCCGCTATCAACATCTAATGACAATTAATGCACGTAACCGTTTATTGCTCACAGG
CACACCTGTGCAGAATAATCTGCTAGAACTCATGTCATTGTTGAATTTTGTTATGCCACACATGTTTAGC
AGTAGCACCAGTGAAATCCGAAGGATGTTTTCTTCTAAAACGAAACCAGCAGACGAGCAGAGTATATACG
AAAAGGAGAGAATAGCCCACGCGAAGCAAATCATTAAGCCCTTCATCCTCAGGAGAGTGAAGGAGGAGGT
TCTTAAGCTCCTGCCTCCCAAGAAGGATCGGATTGAGCTATGTGCGATGTCAGAGAAGCAGGAGCAGCTC
TACTCGGGCCTCTTCAACAGATTGAAAAAGTCTATCAACAACCTGGAAAAAAACACAGAGATGTGCAATG
TCATGATGCAATTGAGAAAAATGGCCAATCACCCTTTACTACACCGCCAGTATTACACACCTGAGAAACT
GAAGGAGATGTCTCAGCTAATGCTGAAGGAACCTACGCACTGTGAGGCCAACCCTGACCTGATCTTTGAA
GACATGGAAGTTATGACAGATTTTGAACTACATGTACTTTGTAAACAGTATCAACACATTAATAGTTACC
AGTTAGACATGGATTTAATTTTAGATTCTGGGAAATTCCGAGCCTTAGGATGCATCTTGTCTGAGTTGAA
ACAGAAGGGTGATAGAGTTGTATTATTCAGCCAGTTTACCATGATGCTGGATATACTAGAGGTTCTCTTA
AAGCATCATCAACATAGGTACCTCCGATTAGATGGAAAGACTCAGATTTCTGAAAGGATTCATCTAATTG
ATGAGTTTAATACAGATATGGATATCTTTGTATTTCTCTTGTCAACTAAAGCTGGTGGACTAGGAATAAA
TCTTACTTCAGCAAATGTTGTTATACTTCACGACATTGATTGCAATCCATACAATGACAAACAAGCAGAA
GACAGGTGCCATAGAGTTGGTCAGACTAAAGAAGTATTAGTTATTAAATTAATAAGCCAAGGAACTATTG
AAGAGTCCATGCTAAAAATTAACCAACAAAAGTTGAAACTAGAGCAAGACATGACCACAGTAGATGAAGC
TGATGAAGGAAGTATGCCAGCAGATATAGCCACATTACTAAAAACATCAATGGGCCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001253392

Insert Size: 2511 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001253392.1, NP_001240321.1
RefSeq Size:	4637 bp
RefSeq ORF:	2511 bp
Locus ID:	13990
UniProt ID:	Q04692
Cytogenetics:	6 30.11 cM
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] Transcript Variant: This variant (2) lacks an alternate exon which results in the use of a downstream start codon, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.

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