

Product datasheet for **RC234518**

SMARCAD1 (NM_001254949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCAD1 (NM_001254949) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMARCAD1
Synonyms:	ADERM; BASNS; ETL1; HEL1; HRZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234518 representing NM_001254949
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCAAAACAACTAATGGCTTATCAGAAGATTTGATATGGCACTGTAAAACACTGATCCAAGAAAGAGATG
 TAGTTATAAGGCTTATGAACAAATGTGAAGACATTTCAAATAAATTGACCAAACAAGTTACCATGCTTAC
 TGGAAATGGAGGTGGATGGAACATAGAACAACCTTCCATTCTAAACCAAAGTTTGTCACTCAAGCCCTAT
 CAGAAGGTTGGTTGAATTGGCTGGCATTGGTACATAAACATGGACTTAATGGCATTGGCAGATGAAA
 TGGGCCTAGGAAAAACTATTCAAGCCATTGCATTTCTGGCATACTCTATCAGGAGGTAATAATGGTCC
 TCATTTGATCGTTGTTCCAGCTTCAACTATAGATAACTGGTTAAGGGAAGTTAATTTATGGTGCCCTACT
 TTGAAGGTCCTCTGTTACTATGGTTCTCAAGAAGAACGTAACAAATTAGATTTAACATTCATAGTAGAT
 ATGAAGATTACAATGTAATTGTGACCACATATAACTGTGCGATCAGCAGTTCTGATGACCGTAGTCTGTT
 TCGACGGCTGAACTTAATTACGCAATTTTGGATGAGGGCCATATGCTGAAGAATATGGGCTCCATTCCG
 TACCAGCACCTTATGACAATTAATGCAAATAACCGTTTGTCTGCTCACAGGCACACCTGTACAGAACAATC
 TGTTAGAACTCATGTCGCTGTTGAATTTGTTATGCCACACATGTTTAGTAGTAGCACCAGTGAAATACG
 AAGAATGTTTTCTCTAAGACAAAATCAGCAGATGAGCAAAGCATATGAAAAGGAGAGAATAGCACAT
 GCAAAAACAAATTAAGCCATTATTCTCAGAAGAGTAAAAGAAGAGGTTCTCAAGCAGTTACCCCCCA
 AGAAAGATCGAATTGAGTTGTGTGCAATGTCCGAGAAGCAGGAGCAACTATTTGGGTCTTTTCAACAG
 ATTGAAAAATCTATCAATAACTTGGAAAAAACACAGAAATGTGCAATGTCATGATGCAGTTGAGGAAA
 ATGGCCAAATCATCCTTTATTACATCGCCAATATTACACAGCTGAAAAACTCAAGGAAATGTCTCAGCTTA
 TGCTAAAGGAACCTACACATTGTGAGGTAACCTGACCTGATCTTTGAAGATATGGAAGTTATGACAGA
 CTTCGAACTACATGTACTTTGTAACAGTACCGACACATTAATAACTTTTCAGTTAGACATGGACTTGATT
 TTAGATTCTGAAAAATTCGAGTTTGGATGCATCTTGTCTGAATTGAAACAGAAGGGTATAGAGTTG
 TGTATTTAGCCAATTTACCATGATGCTGGATATCTTAGAGGTTCTATTAACATCATCAGCATAGGTA
 CCTCAGATTAGATGAAAAGACTCAGATTCTGAAAGGATTCATCTAATTGATGAGTTAATACCGATATG
 GATATCTTTGTGTTTCTGCTATCAACAAAAGCTGGTGGATTAGGAATAAATCTGACTTCAGCAAATGTTG
 TTATACTCAGATATTGACTGTAATCCTTATAATGACAAACAAGCAGAAGATAGATGCCATAGAGTAGG
 CCAGACTAAAGAAGTACTAGTTATAAACTAATAAGCCAAGGGACGATTGAAGAATCCATGCTAAAAATT
 AACCAACAGAAATGAACTAGAACAGGATATGACTACAGTAGATGAAGGTGATGAAGGGAGTATGCCAG
 CAGATATAGCCACATTACTAAAAACATCAATGGGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234518 representing NM_001254949
 Red=Cloning site Green=Tags(s)

MSKTNGLSEDLIWHCKTLIQERDVVIRLMNKCEDI SNKLTQVMTLTGNNGGWNIEQPSILNQSLSLKPY
 QKVGLNWLALVHKHGLNGILADEMGLGKTIQAI AFLAYL YQEGNNGPHLIVVPASTIDNWLREVNLCPT
 LKVL CYYGSQEERKQIRFNIHSRYEDYNVIVTTYNCAISSDDRSLFRRLKLNIAIFDEGHMLKNMGSIR
 YQHLMTINANNRLLL TGTPVQNNLELMSLLNFVMPHMFSSSTSEIRRMFSSKTKSADEQSIYEKERIAH
 AKQI IKPFI LRRVKEEV LKQLPPKKDRIELCAMSEKQEQLYGLFNRLKKSINNLEKNTMCNVMMLR
 MANHPLLHRQYYTAEKLEMSQLMLKEPTHCEANPDLIFEDMEVMTDFELHVLCKQYRHINNFQLDMDLI
 LDSGKFRVLGCILSELKQKGDVVLF SQFTMMLDILEVLLKHHQHRYLRLDGKTQISERIHLLIDEFNTDM
 DIFVFL LSTKAGGLGINLTSANVVILHDIDCNPYNDKQAEDRCHRVRGQTKEVLVIKLISQGTIEESMLKI
 NQQLKLEQDMTTVDEGDEGSMPIATLLKTSML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001254949

ORF Size: 1788 bp

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.

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_001254949.2](#)

RefSeq Size: 3950 bp

RefSeq ORF: 1791 bp

Locus ID: 56916

UniProt ID: [Q9H4L7](#)

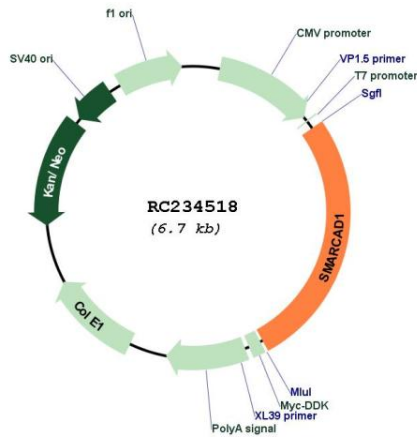
Cytogenetics: 4q22.3

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

MW: 69.2 kDa

Gene Summary: This gene encodes a member of the SNF subfamily of helicase proteins. The encoded protein plays a critical role in the restoration of heterochromatin organization and propagation of epigenetic patterns following DNA replication by mediating histone H3/H4 deacetylation. Mutations in this gene are associated with adematoglyphia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC234518