

Product datasheet for **RG234518**

SMARCAD1 (NM_001254949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCAD1 (NM_001254949) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMARCAD1
Synonyms:	ADERM; BASNS; ETL1; HEL1; HRZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234518 representing NM_001254949
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCAAAACAACTAATGGCTTATCAGAAGATTTGATATGGCACTGTAAAACACTGATCCAAGAAAGAGATG
 TAGTTATAAGGCTTATGAACAAATGTGAAGACATTTCAAATAAATTGACCAAACAAGTTACCATGCTTAC
 TGGAAATGGAGGTGGATGGAACATAGAACAACCTTCCATTCTAAACCAAAGTTTGTCACTCAAGCCCTAT
 CAGAAGGTTGGTTGAATTGGCTGGCATTGGTACATAAACATGGACTTAATGGCATTGGCAGATGAAA
 TGGGCCTAGGAAAAACTATTCAAGCCATTGCATTTCTGGCATACTCTATCAGGAGGTAATAATGGTCC
 TCATTTGATCGTTGTTCCAGCTCAACTATAGATAACTGGTTAAGGGAAGTTAATTTATGGTGCCCTACT
 TTGAAGGCTCTGTTACTATGGTTCTCAAGAAGAACGTAACAAATAGATTTAACATTCATAGTAGAT
 ATGAAGATTACAATGTAATTGTGACCACATATAACTGTGCGATCAGCAGTTCTGATGACCGTAGTCTGTT
 TCGACGGCTGAACTTAATTACGCAATTTTGGATGAGGGCCATATGCTGAAGAATATGGGCTCCATTCCG
 TACCAGCACCTTATGACAATTAATGCAAATAACCGTTTGTCTGCTCACAGGCACACCTGTACAGAACAATC
 TGTTAGAACTCATGTCGCTGTTGAATTTGTTATGCCACACATGTTTAGTAGTAGCACCAGTGAAATACG
 AAGAATGTTTTCTCTAAGACAAAATCAGCAGATGAGCAAAGCATATGAAAAGGAGAGAATAGCACAT
 GCAAAAACAAATTAAGCCATTATTCTCAGAAGAGTAAAAGAAGAGGTTCTCAAGCAGTTACCCCCCA
 AGAAAGATCGAATTGAGTTGTGTGCAATGTCCGAGAAGCAGGAGCAACTCTATTTGGGTCTTTTCAACAG
 ATTGAAAAATCTATCAATAACTTGGAAAAAACACAGAAATGTGCAATGTCATGATGCAGTTGAGGAAA
 ATGGCCAAATCATCCTTTATTACATCGCCAATATTACACAGCTGAAAAACTCAAGGAAATGTCTCAGCTTA
 TGCTAAAGGAACCTACACATTGTGAGGCTAACCTGACCTGATCTTTGAAGATATGGAAGTTATGACAGA
 CTTCGAACTACATGTACTTTGTAACACAGTACCGACACATTAATAACTTTTCAGTTAGACATGGACTTGATT
 TTAGATTCTGAAAAATTCGAGTTTGGATGCATCTTGTCTGAATTGAAACAGAAGGGTGATAGAGTTG
 TGTTATTTAGCCAATTTACCATGATGCTGGATATCTTAGAGGTTCTATTAACATCATCAGCATAGGTA
 CCTCAGATTAGATGAAAAGACTCAGATTCTGAAAGGATTCATCTAATTGATGAGTTAATACCGATATG
 GATATCTTTGTGTTTCTGCTATCAACAAAAGCTGGTGGATTAGGAATAAATCTGACTTCAGCAAATGTTG
 TTATACTTCACGATATTGACTGTAATCCTTATAATGACAAACAAGCAGAAGATAGATGCCATAGAGTAGG
 CCAGACTAAAGAAGTACTAGTTATAAACTAATAAGCCAAGGGACGATTGAAGAATCCATGCTAAAAATT
 AACCAACAGAAATGAACTAGAACAGGATATGACTACAGTAGATGAAGGTGATGAAGGGAGTATGCCAG
 CAGATATAGCCACATTACTAAAAACATCAATGGGCCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234518 representing NM_001254949
 Red=Cloning site Green=Tags(s)

MSKTNGLSEDLIWHCKTLIQERDVVIRLMNKCEDI SNKLTQVMTLTGNGGWNIEQPSILNQSLSKPY
 QKVGLNWLALVHKHGLNGILADEMGLGKTIQAI AIFLAYLYQEGNNGPHLIVVPASTIDNWLREVNLWCPT
 LKVLCCYYSQEERKQIRFNIHSRYEDYNVIVTTYNCAISSDDRSLFRRLKLNIAIFDEGHMLKNMGSIR
 YQHLMTINANNRLLL TGPVQNNLLELMSLLNFVMPHMFSSSTSEIRRMFSSKTKSADEQSIYEKERIAH
 AKQI IKPFILRRVKEEVKQLPPKKDRIELCAMSEKQEQLYGLFNRLKKSINNLEKNTMCMNMMQLRK
 MANHPLLHRQYYTAEKLEMSQLMLKEPTHCEANPDLIFEDMEVMTDFELHVLCKQYRHINNFQLDMDLI
 LDSGKFRVLGCILSELKQKGDVVLF SQFTMLLDILEVLLKHHQHRYLRDGGKTQISERIHLIDEFNTDM
 DIFVFLSTKAGGLGINLTSANVVILHDIDCNPYNDKQAEDRCHRVGQTKEVLVIKLI SQGTIEESMLKI
 NQQLKLEEQDMMTVDEGDEGSMADIATLLKTSMLG

TRTRPLE – GFP Tag – V

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

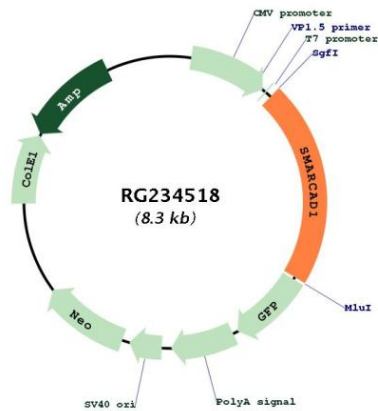
UniProt ID: [Q9H4L7](#)

Cytogenetics: 4q22.3

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

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 RG234518