

Product datasheet for **RG226303**

SMARCAD1 (NM_001128430) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCAD1 (NM_001128430) 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)
ORF Nucleotide Sequence:	>RG226303 representing NM_001128430 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCTTTTCAACCTGGACCGTTTTTCGCTTTGAGAAAAGGAATAAGATTGAGGAAGCGCCGAAGCAA
CCCCTCAACCTTCCCAGCCTGGCCCTTCTTACCAATTTCTCTTAGTGCTGAAGAGGAGAATGCTGAAGG
GGAAGTTAGCAGGGCAACACTCCTGATTCAGATATACTGAAAAACAGAAGATTCTAGTGTCCAGAA
ACTCCAGATAATGAAAGAAAAGCAAGTATATCATATTTCAAAAAATCAAAGAGGAATACAGTATATTGATT
TGCTTTCTGATAGTGAAGATGTCGTTTTCCCAAATGCTCCAATACAGTTCAAGAGAAAACATTCACAA
AGATACAGTGATTATAGTTTCTGAGCCATCTGAAGATGAAGAGTCCCAAGGCCTTCTACCATGGCACGT
AGAAATGATGATATTTTCAGAAGTGGAAAGACCTTTCGGAATTGGAAGACCTTAAAGATGCTAACTTCAGA
CTTTGAAGGAACCTTTTCCACAAAGAAGTGACAATGATTTACTTAAGTTGATTGAATCAACAAGCACTAT
GGATGGAGCAATTGCTGCTGCCTTGCTGATGTTGGTGATGCAGGTGGTGGGCCAGGAAAAGAAAATTA
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ATCATGGAGAGGAATCAAATGAGTCTGCAGAATCTAGCAGTAATTGGGAAAAGCAGGAAAGTATTGTACT
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CTAAACCAAAGTTTGTCACTCAAGCCCTATCAGAAGGTTGGTTTGAATTGGCTGGCATTGGTACATAAAC
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 CTTAGAGGTTCTATTAACATCATCAGCATAGGTACCTCAGATTAGATGGAAAGACTCAGATTTCTGAA
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 GTGGATTAGGAATAAATCTGACTTCAGCAAATGTTGTTATACTTCACGATATTGACTGTAATCCTTATAA
 TGACAAACAAGCAGAAGATAGATGCCATAGAGTAGGCCAGACTAAAGAAGTACTAGTTATAAACTAATA
 AGCCAAGGACGATTGAAGAATCCATGCTAAAAATTAACCAACAGAAATTGAAACTAGAACAGGATATGA
 CTACAGTAGATGAAGGTGATGAAGGGAGTATGCCAGCAGATATAGCCACATTACTAAAAACATCAATGGG
 CCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226303 representing NM_001128430
 Red=Cloning site Green=Tags(s)

MNLFNLDLDRFRFEKRNKIEEAEATPQSPQGPSSPISLSAEENAEGEVSRANTPDSITEKTEDSSVPE
 TPDNERKASISYFKNQRGIQYIDLSSDSEDVVSPPNCNTVQEKTFNKDTVIIIVSEPESEDEESQGLPTMAR
 RNDDISELEDLSELEDLKDACLQTLKELFPQRSNDLLKLIESTSTMDGAIAAALLMFGDAGGGPRKRKL
 SSSSEPYEDEFNDDQSIKKTRLDHGEESNESAESSSNWEKQESIVLKLQKEFPNFDKQELREVLKEHEW
 MYTEALESCLKVFAEDQDMQYVSQSEVPNGKEVSSRSQNYPKNATKTKLKQKFSMKAQNGFNKRRKNVFN
 PKRVVEDSEYDSGSDVGSLLDEDYSSGEEVMEDGYKGIHLHFLQDASIGELTLIPQCSQKKAQKITELRP
 FNSWEALFTKMSKTNGLSEDLIWHCKTLIQERDVVIRLMNKCEDI SNKLTQVMTL TNGGGWNIEQPSI
 LNQSLSLKPYQKVLNWLALVHKHGLNGILADEMGLGKTIQAI AFLAYL YQEGNNGPHL I VVPASTIDNW
 LREVNLWCPTLKVLCYYGSQEERKQIRFNIHSRYEDYNVIVTTYNCAISSDDRSLFRRLKLNIAIFDEG
 HMLKNMGSIRYQHLMTINANNRLLL TGTPVQNNLELMSLLNFVMPHMFSSSTSEIRRMFSSKTKSADEQ
 SIYEKERIAHAKQIIKPFILRRVKEEVKQLPPKKDRIELCAMSEKQEQLYLGLFNRLKKSINNLVTEKN
 TEMCNVMMQLRKMANHPLLHRQYYTAEKLKEMSQLMLKEPTHCEANPDLIFEDMEVMTDFELHVLCKQYR
 HINNFQLDMDLILDGSKFRVLGCILSELKQKGDVVLFSSQFTMMLDILEVLLKHHQHRYLRDYGKTQISE
 RIHLIDEFNTDMDIFVLLSTKAGGLGINLTSANVVILHDIDCNPYNDKQAE DRCHRVGQTKEVLVIKLI
 SQGTIEESMLKINQKLEQDMTTVDEGDEGSMADIATLLKTSMGL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_001128430.2
RefSeq Size:	5036 bp
RefSeq ORF:	3087 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 adermatoglyphia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]