

Product datasheet for **RG226302**

SMARCAD1 (NM_001128429) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCAD1 (NM_001128429) 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:	>RG226302 representing NM_001128429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCTTTTCAACCTGGACCGTTTTTCGCTTTGAGAAAAGGAATAAGATTGAGGAAGCGCCGAAGCAA
CCCCTCAACCTTCCCAGCCTGGCCCTTCTTACCAATTTCTCTTAGTGCTGAAGAGGAGAATGCTGAAGG
GGAAGTTAGCAGGGCAACACTCCTGATTCAGATATACTGAAAAACAGAAGATTCTAGTGTCCAGAA
ACTCCAGATAATGAAAGAAAAGCAAGTATATCATTTTCAAAAAATCAAAGAGGAATACAGTATATTGATT
TGCTTTCTGATAGTGAAGATGTCGTTTTCCCAAATGCTCCAATACAGTTCAAGAGAAAACATTCACAA
AGATACAGTGATTATAGTTTCTGAGCCATCTGAAGATGAAGAGTCCCAAGGCCTTCTACCATGGCACGT
AGAAATGATGATATTTTCAGAACTGGAAGACCTTTCGGAATTGGAAGACCTTAAAGATGCTAACTTCAGA
CTTTGAAGGAACCTTTTCCACAAAGAAGTGACAATGATTTACTTAAGTTGATTGAATCAACAAGCACTAT
GGATGGAGCAATTGCTGCTGCCTTGCTGATGTTGGTGATGCAGGTGGTGGGCCAGGAAAAGAAAATTA
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ATCATGGAGAGGAATCAAATGAGTCTGCAGAATCTAGCAGTAATTGGGAAAAGCAGGAAAGTATTGTACT
GAAATTTGCAAAAGGAATTTCCCAATTTTGATAAACAGGAACTTAGAGAAGTACTCAAGGAACATGAATGG
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ACTAAAACAGAAATTTTCAATGAAAGCACAAAATGGCTTTAACAAGAAACGTAAAAAAAATGTTTTAAT
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TAAATTGACCAACAAGTTACCATGCTTACTGAAATGGAGGTGGATGGAACATAGAACAACCTTCCATT



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CTAAACCAAAGTTTGCTACTCAAGCCCTATCAGAAGGTTGGTTTGAATTGGCTGGCATTGGTACATAAAC
 ATGGACTTAATGGCATTGGCAGATGAAATGGCCCTAGGAAAACTATTCAAGCCATTGCATTTCTGGC
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 CTTAGAGGTTCTATTAACATCATCAGCATAGGTACCTCAGATTAGATGGAAAGACTCAGATTTCTGAA
 AGGATTCATCTAATTGATGAGTTAATACCGATATGGATATCTTTGTGTTCTGCTATCAACAAAAGCTG
 GTGGATTAGGAATAAATCTGACTTCAGCAAATGTTGTTATACTTCACGATATTGACTGTAATCCTTATAA
 TGACAAACAAGCAGAAGATAGATGCCATAGAGTAGGCCAGACTAAAGAAGTACTAGTTATAAACTAATA
 AGCCAAGGACGATTGAAGAATCCATGCTAAAAATTAACCAACAGAAATTGAAACTAGAACAGGATATGA
 CTACAGTAGATGAAGGTGATGAAGGGAGTATGCCAGCAGATATAGCCACATTACTAAAAACATCAATGGG
 CCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226302 representing NM_001128429
 Red=Cloning site Green=Tags(s)

MNLFNLDLDRFRFEKRNKIEEAEATPQPSQPGSPISLSAEENEAEVSRANTPDSITEKTEDSSVPE
 TPDNERKASISYFKNQRGIQYIDLSSDSEDVVS PNCSTVQEKTFNKDTVII VSEPSSEDEESQGLPTMAR
 RNDDISELEDLSELEDLKDACLQTLKELFPQRSDNDLLKLIESTSTMDGAI AALLMFGDAGGGPRKRKL
 SSSSEPYEDEFNDDQSIKKTRLDHGEESNESAESSNWEKQESIVLKLQKEFPNFDKQELREVLKEHEW
 MYTEALES LKVF AEDQDMQYVSQSEVPNGKEVSSRSQNYPKNATKTKLKQKFSMKAQNGFNKRRKNVFN
 PKRVVEDSEYDSGSDVGS SLDDEDYSSGEEVMEDGYKGIHLHFLQDASIGEL TLIPQCSQKKAQKITELRP
 FNSWEALFTKMSKTNGL SEDLIWHCKTLIQERDVVIRLMNKCEDI SNKLTQVMTL TNGGGWNIEQPSI
 LNQSLSLKPYQKVLNWLALVHKHGLNGILADEMGLGKTIQAI AFLAYL YQEGNNGPHL I VVPASTIDNW
 LREVNLWCPTLKVLCYYSQEERKQIRFNIHSRYEDYNVIVTTYNCAISSDDRSLFRRLKLNIAIFDEG
 HMLKNMGSIRYQHLM TINANNRLLL TGTPVQNNLELMSLLNFVMPHMFSSSTSEIRRMFSSKTKSADEQ
 SIYEKERIAHAKQIIKPFILRRVKEEV LKQLPPKKDRIELCAMSEKQEQLYLGFLNRLKKSINNLVTEKN
 TEMCNVMMQLRKMANHPLLHRQYYTAEKLKEMSQLMLKEPTHCEANPDLIFEDMEVMTDFELHVLCKQYR
 HINNFQLDMDLILD SGKFRVLGCIL SELKQKGD RVVLF SQFTMMLDI LEVELLKHQHRYLRLDGKTQISE
 RIHLIDEFNTDMDIFVLLSTKAGGLGINLTSANVVILHDIDCNPYNDKQAE DRCHRVGQTKEVLVIKLI
 SQGTIEESMLKINQQKLKLEQDMTTVDEGDEGSMPADIATLLKTSMGL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001128429

ORF Size: 3084 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.

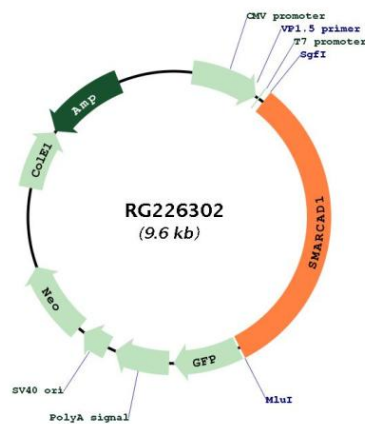
RefSeq: [NM_001128429.3](#)

RefSeq Size: 5114 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]

Product images:



Circular map for RG226302