

Product datasheet for **RG235069**

ARID5B (NM_001244638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARID5B (NM_001244638) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARID5B
Synonyms:	DESRT; MRF-2; MRF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG235069 representing NM_001244638
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCAAATCTTAAAGGCAGACCACGCAAAAAGAAACCATGCCACAAAAGAAGAGATTCATTACGTG
 GTGTTAAGGATTCACAACAACAAATCCGATGGCAAAGCCGTTGCCAAGGTGAAATGTGAGGCCAGGTCAGC
 CTTGACCAAGCCGAAGAATAACCATAACTGTA AAAAAGTCTCAAATGAAGAAAAACCAAAGTTGCCATT
 GGTGAAGAGTGCAGGGCAGATGAACAAGCCTTCTTGGTGGCACTTTATAAATACATGAAAGAAAGGAAAA
 CGCCGATAGAACGAATACCCTATTTAGGTTTTAAACAGATTAACCTTTGGACTATGTTTTCAAGCTGCTCA
 AAAACTGGGAGGATATGAAACAATAACAGCCCGCCGTCAGTGGAAACATATTTATGATGAATTAGGCGGT
 AATCCTGGGAGCACCAGCGCTGCCACTTGTACCCGCAGACATTATGAAAGATTAATCCTACCATATGAAA
 GATTTATTAAGGAGAAGAAGATAAGCCCTGCCTCCAATCAAACCTCGGAAACAGGAGAACAGTTCA
 GAAAAATGAGAACAAAACAAAAGTATCTGGAACCAAACGCATCAAACATGAAATACCTAAAAGCAAGAAA
 GAAAAAGAAAATGCCCAAAGCCCAAGGATGCAGCAGAGGTTTCATCAGAGCAAGAAAAAGAAACAAGAGA
 CTTTAATAAGCCAGAAAAGCATCCCTGAGCCTCTCCCAGCAGCAGACATGAAGAAAAAATAGAAGGGTA
 TCAGGAATTTTCAGCGAAGCCCTGGCATCCAGAGTAGACCCAGAGAAGGACAACGAAACAGACCAAGGT
 TCCAACAGTGAGAAGGTGGCAGAGGAGGGGAGAGAAGGGGCCACACCTCCACTCCCAAGTGCTCCTC
 TGGCCCCAGAAAAGATTAGCCTTGGTCCCTGGGGCCAGCAAACAGCCACTCACCTCTCCTAGTGCCCT
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 TCCTTCCCAGCTTCCCACCACACAGCCACCCGCTGGCAAACAGAAATGAGACGGAGGATGACAACTGC
 CGCCTTCAAGCAGACCCCAAAGGTCCTTGTGGTCCAGTCGTTTGACATGTTCAAAGACAAAAGACCTGACT
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 CAGACCCACCATGGCCAAAGCACTGACCATATGGCGGTGAGCCGGCCATCAGTGATTGAGCAGTCCAGA
 GTTTCAGAAGCAAGCCCTCGGAAGAGAGAAAGACCATCAATGACATCTTTAAGCATGAGAACTGAGTGC
 ATCAGATCCCACCGCTGCAGCTTCTCCAAGCATCACCTTAACCCCTTGCTGACTCCTACGTCCTGAAG
 CAAGAAATTCAGGAGGGCAAGGATAAATCTTAGAGAAAAGGGCCCTCCCCATTCCACATGCCTAGCT
 TCCTGGCTGACTTCTACTCGTCCCTCATCTCCATAGCCTCTACAGACACACCGAGCACCATCTTATAA
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 CAGAAGCCCTACGGATGATCAGCTACAGATCTGAGCCTTCCAAGAACCCGCACAAACCTACCGGCAA
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 AAAACCAGACTGTGCTTCTCCACTCATGCAGCCCTGGCTTCCACTCGCTTGTGATGCAAAGAGGAAT
 TTTTACATCACCGACAAATCTCAGCAGCTGTACAGACACTTGGTGGGCTACACCTGTAGGAAGTTCA
 TATGGGACCTTTTGCATAACAGCATTTACCCTTTAGCTGCTATAAATCCTCAAGCTGCCTTTCCATCTT
 CCCAGCTGTCATCCGTGCACCCAGTACAAAATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG235069 representing NM_001244638
 Red=Cloning site Green=Tags(s)

MAPNLKGRPRKKKPCPQRRDSFSGVKDSNNNSDGKAVAKVKCEARSALTKPKNNHNCKKVSNEEKPKVAI
 GEEGRADEQAFVALYKYMKERKTPIERIPYLGFKQINLWTFQAAQKLGGETITARRQWKHIYDELGG
 NPGSTSAATCTRRHYERLILPYERFIKGEEDKPLPPIKPRKQENSSQENENKTKVSGTKRIKHEIPKSKK
 EKENAPKPDAAEVSSEQEKEQETLISQKSIPEPLPAADMKKKIEGYQEFSAKPLASRVDPKDNEDDQG
 SNSEKVAEEAGEKGPTPLPSAPLAPEKDSALVPGASKQPLTSPSALVDSKQESKLCCTESPESEPQEA
 SFPSPFTTQPPLANQNETEDDKLPAMADYIANCTVKVDQLGSDDIHNALKQTPKVLVVQSFDMFKDKDLT
 GPMNENHGLNYTPLLYSRGNPGIMSPAKKKLLSQVSGASLSSSYPGSPPLISKKKLIARDDLCSLS
 QTHHGQSTDHMAVSRPSVIQHVQSFRSKPSEERKTINDIFKHEKLSRSDPHRCFSKHHLNPLADSYVLK
 QEIQEGDKLLEKRALPHSHMPSFLADFYSSPHLHSLYRHEHHLHNEQTSKYPSRDMYRESENSFPSPH
 RHQEKLVHNYL TSLHLQDKKSAAAEAPDDQPTDLSLPKNPHKPTGKVLGLAHSTGQPESKGISQFQVL
 GSQSRDCHPKACRVSPMTMSGPKKYPELSRSRGKPHHVLENFRKMEGMVHPILHRKMSPQNIIGAARPIK
 RSLLEDLVIAGKKARAVSPLDPSKEVSGKEKASEQESEGSKAAHGGHSGGGSEGHKLPLSSPIFPGLYS
 GSLCNSGLNSRLPAGYSHSLQYLKNQTVLSPLMQPLAFHSLVMQRGIFTPTNSQQLYRHLAAATPVGSS
 YGDLHNSIYPLAAINPQAAPFSSQLSSVHPSTKL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

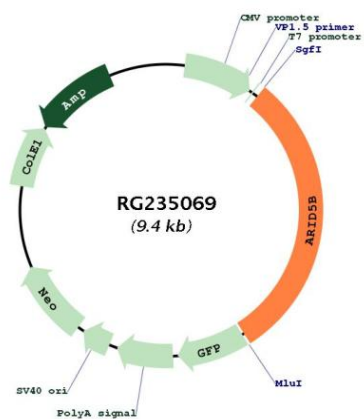


ACCN: NM_001244638

ORF Size: 2835 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:	<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_001244638.2
RefSeq Size:	7032 bp
RefSeq ORF:	2838 bp
Locus ID:	84159
UniProt ID:	Q14865
Cytogenetics:	10q21.2
Gene Summary:	This gene encodes a member of the AT-rich interaction domain (ARID) family of DNA binding proteins. The encoded protein forms a histone H3K9Me2 demethylase complex with PHD finger protein 2 and regulates the transcription of target genes involved in adipogenesis and liver development. This gene also plays a role in cell growth and differentiation of B-lymphocyte progenitors, and single nucleotide polymorphisms in this gene are associated with acute lymphoblastic leukemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG235069