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Product datasheet for RG235154

JARID2 (NM_001267040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JARID2 (NM_001267040) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JARID2
Synonyms:	JMJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG235154 representing NM_001267040
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTATTTTGGAAGCTCTCAGGATGAGGAGGAAGTCGAGGAGGAAGATGATGAGACAGAAGACGTCA
AAACAGCCACCAACAATGCTTCATCTTCATGCCAGTCGACCCCCAGGAAAGGAAAAACCCACAAACATGT
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AGCAAAGAGGCCACTCCCGCAAAGGAGAAGCACAGCGATCACCGGGCTGACAGCCGCCGGGAGCAGGCTT
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CCCCCCTCTGCATCGGTCGGCTCAGGACTTACGGAAACAGGTTTCTAAGGTAAACGGAGTCACTCGAATG
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AATGAGATGGGCGGCATGCAGCAAGTGACTGACCTCAAAAAATGGAACAAACTAGCAGACATGCTGCGCA
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AGAGCGACAGTGGACGTGCCCCCCTCCCGTCTGTCAGCCTCCAGTTCATCCAAAAGTGCTTCGAGCTCAT
CA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235154 representing NM_001267040
Red=Cloning site Green=Tags(s)

MVYFGSSQDEEEVEEEDDETEDVKTATNNASSSCQSTPRKGKTHKHVHNGHVFNGSSRSTREKEPVQKHK
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SSLGAGVTSAKKMREVRPSPSKTVKYTATVTKGAVTYTKAKRELVKDTKPNHHKPSSAVNHTISGKTESS
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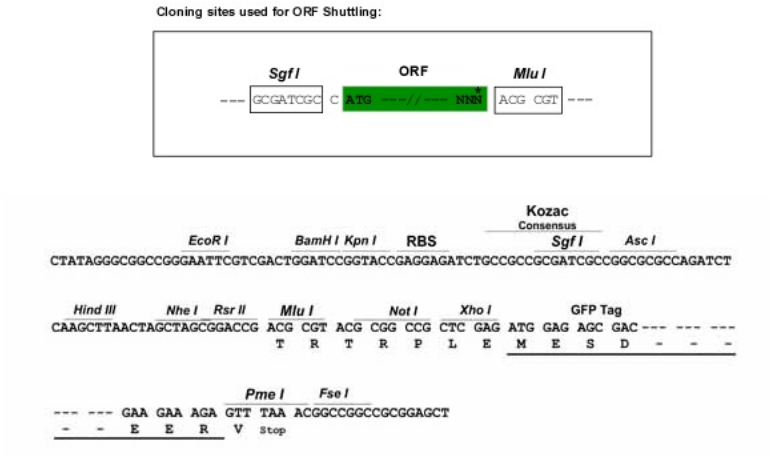
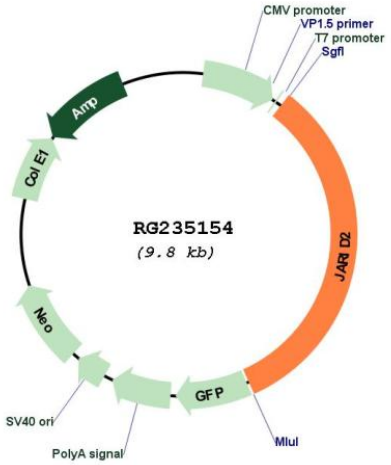
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001267040
ORF Size:	3222 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_001267040.1, NP_001253969.1
RefSeq Size:	5612 bp
RefSeq ORF:	3225 bp
Locus ID:	3720
UniProt ID:	Q92833
Cytogenetics:	6p22.3
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a Jumonji- and AT-rich interaction domain (ARID)-domain-containing protein. The encoded protein is a DNA-binding protein that functions as a transcriptional repressor. This protein interacts with the Polycomb repressive complex 2 (PRC2) which plays an essential role in regulating gene expression during embryonic development. This protein facilitates the recruitment of the PRC2 complex to target genes. Alternate splicing results in multiple transcript variants. Mutations in this gene are associated with chronic myeloid malignancies. [provided by RefSeq, May 2012]