

Product datasheet for **RG208399**

APOBEC2 (NM_006789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOBEC2 (NM_006789) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APOBEC2
Synonyms:	ARCD1; ARP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208399 representing NM_006789 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAAGGAAGAGGCTGCTGTGGCCACTGAGGCTGCCTCCAGAATGGGGAGGATCTGGAGAACC
TGGACGACCCTGAGAAGCTGAAAGAGCTGATTGAGCTGCCGCCCTTTGAGATTGTCACAGGAGAACGGCT
GCCTGCCAACTTCTTTAAATTCCAGTCCGGAATGTGGAGTACAGTCCGGGAGGAACAAGACCTTCCTC
TGCTATGTGGTTGAAGCACAGGGCAAGGGGGCCAAGTGCAGGCATCTCGGGGATACCTAGAGGATGAGC
ATGCGGCTGCCCATGCAGAGGAAGCTTTCTTCAACACCATCCTGCCAGCCTTCGACCCAGCCCTGCGGTA
CAATGTCACCTGGTATGTGTCCTCCAGCCCTGTGCAGCGTGTGCTGACCGCATTATCAAAACCTTAGC
AAGACCAAGAACCTGCGTCTGCTCATTCTGGTGGTTCGACTTTCATGTGGGAGGAGCCGGAGATCCAGG
CTGCTCTGAAGAAGCTGAAGGAGGCTGGCTGTAAGTGCATCATGAAGCCCCAGGACTTCGAATATGT
CTGGCAGAATTTGTGGAGCAAGAAGAGGGTGAATCCAAGGCTTTCAGCCCTGGGAGGACATTCAGGAG
AACTTCTATACTACGAGGAGAAGTTGGCAGACATCCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208399 representing NM_006789
 Red=Cloning site Green=Tags(s)

MAQKEEA AVATEAASQNGEDLENLDDPEKLEL IELPPFEIVTGERLPANFFKFQFRNVEYSSGRNKTF
 CYVVEAQKGGQVQASRGYLEDEHAAAHAEAFNTILPAFDPALRYNVTWYVSSSPCAACADRIIKTLS
 KTKNLRLLILVGRLFMWEEPEIQAA LKKLKEAGCKLRIMKPD F EYVWQNFVEQE EGESKAFQPWEDIQE
 NFLYYEEKLADILK

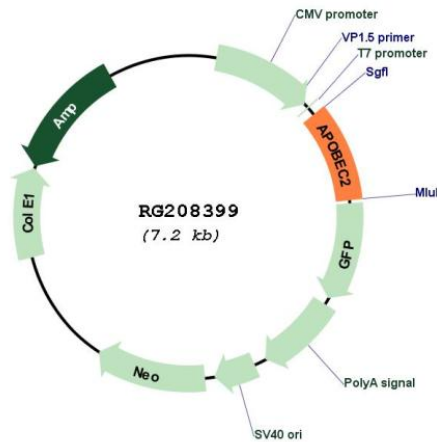
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006789

ORF Size: 672 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_006789.3 , NP_006780.1
RefSeq Size:	1195 bp
RefSeq ORF:	675 bp
Locus ID:	10930
UniProt ID:	Q9Y235
Cytogenetics:	6p21.1
Gene Summary:	Probable C to U editing enzyme whose physiological substrate is not yet known. Does not display detectable apoB mRNA editing. Has a low intrinsic cytidine deaminase activity. May play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.[UniProtKB/Swiss-Prot Function]