

Product datasheet for RG230878

RASAL1 (NM_001193520) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL1 (NM_001193520) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASAL1
Synonyms:	RASAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgf I ORF Miu I

CGATCGC ACG CGT Kozac Sgf I EcoR I BamH I Kpn I RBS Asc I Hind III Nhe I Rsr II GFP Tag Mlu I
 Hind III
 Nhe I
 Rsr II
 Miu I
 Not I
 Xho I
 GFP Tag

 CAAGCTTAACTAGCGACGGACGGACG
 ACG CGT ACG CGG CGC CGC GAG ATG GAG AGG GAC
 T
 R
 T
 R
 P
 L
 E
 M
 E
 S
 D
 Fse I Pme I --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT - E E R V stop

ACCN: NM_001193520 **ORF Size:** 2418 bp



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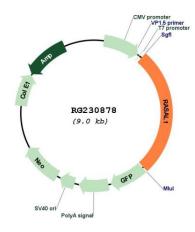


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Sevent Result (NM_001193520) Human Tagged ORF Clone – RG230878	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001193520.1, NP 001180449.1</u>
RefSeq Size:	3832 bp
RefSeq ORF:	2421 bp
Locus ID:	8437
UniProt ID:	<u>095294</u>
Cytogenetics:	12q24.13
Gene Summary:	The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. These proteins stimulate the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. This particular family member contains domains which are characteristic of the GAP1 subfamily of RasGAP proteins but, in contrast to the other GAP1 family members, this protein is strongly and selectively expressed in endocrine tissues. Alternatively spliced transcript variants that encode different isoforms have been described [provided by RefSeq, Jul 2010]

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Product images:



Circular map for RG230878

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