

Product datasheet for **RG238249**

BIN2 (NM_001290009) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIN2 (NM_001290009) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BIN2
Synonyms:	BRAP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238249 representing NM_001290009. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAATCTATGTTGCCAGTTCAGTGAATTAAGGAGAGAATTGCCAAGCGGGTTCGAAACTCGTG
GACTATGACAGTGCCCGACACCCTGGAGGCAGTGCAGAATGCCAAGAAGAAAGATGAGGCCAAGACT
GCCAAGGCAGAGGAAGAGTTCAACAAAGCCAGACTGTGTTTGAAGATCTGAACCAAGAATACTAGAG
GAGCTGCCTATTCTTTAATAGTCGATTGGCTGCTATGTGACCATCTCCAAAACATTTCCAACCTTG
AGGGATGTCTTACAGGAAATGAGCAAGCTGAACCACAATCTCTACGAGGTGATGAGCAAACCTGGAG
AAGCAACATTTCAATAAAGTCTTTGTGGTGAAGGGACTGTCAAGCAGCAGCAGGGCGCTCTTAGTCATT
TCTCCCCAGTTGAAACAGCTACAGTCTCCAGTCTCTTACCTCACCTACTAGTCCCTCTACACTTTC
TTGAAGAGTGAGAGTGAATCTGTCTCAGCAACTGAAGATCTGGCACCTGATGCAGCCCAAGGGGAAGAC
AATTCTGAGATCAAGGAGCTCTTAGAAGAGGAGGAAATAGAGAAGGAAGGATCTGAAGCAAGCTCCTCT
GAGGAAGATGAGCCTCTACCAGCCTGCAATGGCCCCGCCAGGCCAGCCCTCTCTACCCTGAAAGG
GCCAAGTCCCAGGAGGAAGTTCTCCCCAGCTCCACAATCCATCACAGGCGGAGCCCTGAGCCCTTCA
GGCAGCCTTCATCATCTGCCACAGAAGTAGTCTCCGAACCCGACCCGCAAGTGAAGGATCTGAACAA
CCAAAGAAGAGAGCCTCTATCCAGAGGACCTCAGCACCCCTAGTAGGCCTCTCCACCCAGAGCCACT
GCAAGCCCCAGGCCCTCCTCAGGAAACATACCTTCCAGCCCTACAGCCTCTGGAGGGGTTCAACCACC
AGCCCTAGGGCCTCCTTGGGGACTGGGACTGCAAGTCTTAGGACCTCCCTAGAGGTCTCTCTAATCCA
GAACCACCAGAGAAGCCAGTAAGAACTCCTGAGGCCAAAGAAAATGAAAACATCCACAATCAGAACCCT
GAAGAAGTTTGTACTTCCCCACCTTAATGACATCTCAGGTTGCTTCAGAGCCTGGAGAGGCAAAGAAG
ATGGAAGACAAGGAAAAGGATAATAAGCTTATCTCAGCTAACTCCTCGGAGGGCCAAGACCAGCTTCAA
GTCTCCATGGTACCAGAAAACAACCTCACAGCACCTGAACCTCAAGAAGAGGTATCCACAAGTGAA
AATCCACAACCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238249
 Blue=ORF Red=Cloning site Green=Tag(s)

MEIYVAQFSEIKERIAKRGRKLVYDYSARHLEAVQNAKKKDEAKTAKAEFEFNKAQTVFEDLNQELLE
 ELPILYNSRIGCYVTFIQNISNLRDVFYREMSKLNHNL YEVMSKLEKQHSNKVVFVKGLSSSSRRSLVI
 SPPVRTATVSSPLTSPSTLSLKSESESVSATDELAPDAAQGEDNSEIKELLEEEEEIEKEGSEASS
 EEDEPLPACNGPAQAQPSPTTERAKSQEEVLPSSSTTPSPGGALSPSGQPSSSATEVVLRTRTASEGSEQ
 PKKRASIQRTSAPPSRPPPRATASPRSSGNIPSSPTASGGGSPTSPRASLGTGTASPRTSLEVPNP
 EPPEKPVRTPEAKENENIHNQNPEELCTSPMLTSQVASEPGEAKKMEDKEKDNKLI SANSSEGQDQLQ
 VSMVPENNLLTAPEPQEEVSTSENPQL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290009

ORF Size: 1323 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).

RefSeq: [NM_001290009.2](#)

RefSeq Size: 2834 bp

RefSeq ORF: 1326 bp

Locus ID: 51411

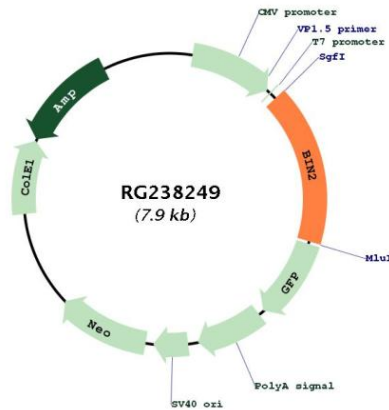
UniProt ID: [Q9UBW5](#)

Cytogenetics: 12q13.13

MW: 48.1 kDa

Gene Summary: Promotes cell motility and migration, probably via its interaction with the cell membrane and with podosome proteins that mediate interaction with the cytoskeleton. Modulates membrane curvature and mediates membrane tubulation. Plays a role in podosome formation. Inhibits phagocytosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG238249