

## Product datasheet for **RG238800**

### **BIN2 (NM\_001290007) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIN2 (NM_001290007) 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)



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**ORF Nucleotide Sequence:**

>RG238800 representing NM\_001290007.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTCTGCAGAAATTTGGGAAAAGCTGTAGAAACCAAAGATGAACGATTTGAACAAAGCGCTAGCAAC
TTCTACCAACAACAGGCAGAAAGCCACAAGCTGTACAAGGACCTGAAGAAGTTCCTTAGTGCAGTCAAA
GTGATGCATGAAAGTTCAAAAAGAGTGTAGAAAACCTGCAGGAGATCTACAGCAGCGAGTGGGACGGT
CATGAGGAGCTGAAGGCCATCGTATGGAATAATGATCTCCTTTGGGAAGACTACGAGGAGAACTGGCT
GACCAGGCTGTAAGGACCATGGAATCTATGTTGCCAGTTCAGTGAAATTAAGGAGAGAATTGCCAAG
CGGGTTCGGAAACTCGTGGACTATGACAGTGCCCGACACCACCTGGAGGCGAGTGCAGAATGCCAAGAAG
AAAGATGAGGCCAAGACTGCCAAGGCAGAGGAAGATTCAACAAAGCCAGACTGTGTTTGAAGATCTG
AACCAAGAAGTACTAGAGGAGCTGCCTATTCTTTATAATAGTCGATTGGCTGCTATGTGACCATCTTC
CAAAACATTTCCAACCTTGAGGGATGTCTTCTACAGGGAAATGAGCAAGCTGAACCACAATCTCTACGAG
GTGATGAGCAAAGTGGAGAAGCAACATTCCAATAAAGTCTTTGTGGTGAAGGGACTGTCAAGCAGCAGC
AGGCGCTCTTTAGTCATTTCTCCCCAGTTCGAACAGCTACAGTCTCCAGTCTTACCTCACCTACT
AGTCCCTCTACACTTTCTTGAAGAGTGAGAGTGAATCTGTCTCAGCAACTGAAGATCTGGCACCTGAT
GCAGCCCAAGGGGAAGACAATTCTGAGATCAAGGAGCTCTTAGAAGAGGAGGAAATAGAGAAGGAAGGA
TCTGAAGCAAGCTCCTCTGAGGAAGATGAGCCTCTACCAGCCTGCAATGGCCCCGCCAGGCCAGCCC
TCTCCTACCACTGAAAGGGCCAAGTCCCAGGAGGAAGTCTCCCCAGCTCCACAACCTCCATCACCAGGC
GGAGCCCTGAGCCCTTACGGGCAGCCTTCATCATCTGCCACAGAAGTAGTCTCCGAACCCGACCCGCA
AGTGAAGGATCTGAACAACCAAGAAGAGAGCCTCTATCCAGAGGACCTCAGCACCCTTAGTAGGCCTCT
CCTCCACCCAGAGCCACTGCAAGCCCCAGGCCCTCCTCAGGGAACATACTTCCAGCCCTACAGCCTCT
GGAGGGGTTTACCCACCAGCCCTAGGGCCTCCTTGGGACTGGGACTGCAAGTCTAGGACCTCCCTA
GAGGTCTCTCCTAATCCAGAACCACAGAGAAGCCAGTAAAGAACTCCTGAGGCCAAAGAAAATGAAAAC
ATCCACAATCAGAACCCTGAAGAAGTGTACTTCCCCACCTTAATGACATCTCAGGTTGCTTCAGAG
CCTGGAGAGGCAAGAAGATGGAAGACAAGGAAAAGGATAATAAGCTTATCTCAGCTAACTCCTCGGAG
GGCCAAGACCAGCTTCAAGTCTCCATGGTACCAGAAAACAACCTCACAGCACCTGAACCTCAAGAA
GAGGTATCCACAAGTGAATCCACAACCT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238800  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MVLQKLGKAVETKDERFEQSASNFYQQQAEGHKLKDLKNFLSAVKVMHESSKRVSETLQEIYSSEWDG
HEELKAIYVWNNDLLWEDYEEKLADQAVRTMEIYVAQFSEIKERIAKRGRKLVYDYSARHHEAVQNAKK
KDEAKTAKAEFEFNKAQTVFEDLNQELLEELPILYNSRIGCYVTFQNISNLRDVFYREMSKLNHNLYE
VMSKLEKQHSNKVFVVKGLSSSSRRSLVISPPVRTATVSSPLTSPTSPSTLSLKSESESVSATEDLAPD
AAQGEDNSEIKELLEEEEEIEKEGSEASSSEDEPLPACNGPAQAQPSPTTERAKSQEEVLPSTTPSPG
GALSPSQPSSSADEVVLRTRTASEGSEQPKKRASIQRTSAPPSRPPPRATASPRPSSGNIPSSPTAS
GGGSPTSPRASLGTGTASPRTSLEVSPNPEPEKPVRTPEAKENENIHNQNPPELCTSPMLTMSQVASE
PGEAKKMEDKEKDNKLISANSSEGQDQLQVSMVPENNNLTAPEPQEEVSTSENPL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVHHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001290007

**ORF Size:** 1617 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\\_001290007.2](#)

**RefSeq Size:** 2255 bp

**RefSeq ORF:** 1620 bp

**Locus ID:** 51411

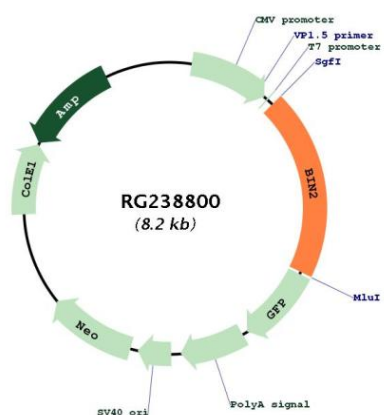
**UniProt ID:** [Q9UBW5](#)

**Cytogenetics:** 12q13.13

**MW:** 59.6 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 RG238800