

## Product datasheet for **RG238916**

### **BIN2 (NM\_001290008) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BIN2 (NM_001290008) 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:**

>RG238916 representing NM\_001290008.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCGAGGCATGCCGGGAGCCCGCACTTCTCCTCGGGGGCCTCAGAAAACACAGGGCGCGGGGCCAG
GGCGGGCCCGCCAGGGAGTTGGCAGGATGGCAGAGGGCAAGGCAGGCGGCGCGCCCGCCTCTTCGCC
AAGCAGGTGCAGAAGAAGTTTAGCAGGGCCAGGAGAAGGTGCTGCAGAAATTGGGGAAAGCTGTAGAA
ACCAAAGATGAACGATTTGAACAAAGCGCTAGCAACTTCTACCAACAACAGGCAGAAAGGCCACAAGCTG
TACAAGGACCTGAAGAACTTCTTAGTGACGTCAAAGTATGCATGAAAGTTCAAAAAGAGTGCAGAA
ACCCTGCAGGAGATCTACAGCAGCGAGTGGGACGGTCAAGGAGCTGAAGGCCATCGTATGGGAGAGA
ATTGCCAAGCGGGTTCGAAACTCGTGGACTATGACAGTGCCCGACACCACCTGGAGGCAGTGCAGAA
GCCAAGAAGAAAGATGAGGCCAAGACTGCCAAGGCAGAGGAAGAGTTCAACAAAGCCAGACTGTGTTT
GAAGATCTGAACCAAGAAGCTAGAGGAGCTGCCTATTCTTTATAATAGTCGTATTGGCTGCTATGTG
ACCATCTTCCAAAACATTTCCAACCTTGGAGGATGTCTTCTACAGGGAAATGAGCAAGCTGAACCACAAT
CTCTACGAGGTGATGAGCAAACTGGAGAAGCAACATTCCAATAAAGTCTTTGTGGTGAAGGGACTGTCA
AGCAGCAGCAGGCGCTCTTTAGTCATTTCTCCCCAGTTCGAACAGCTACAGTCTCCAGTCTCTTACC
TCACCTACTAGTCCCTCTACACTTTCCTTGAAGAGTGAGAGTGAATCTGTCTCAGCAACTGAAGATCTG
GCACCTGATGCAGCCCAAGGGGAAGACAATTCTGAGATCAAGGAGCTCTTAGAAGAGGAGGAAATAGAG
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GCCAGCCCTCTCTACCACTGAAAGGGCCAAGTCCCAGGAGGAAGTTCTCCCCAGCTCCACAACCTCA
TCACCAGGCGGAGCCCTGAGCCCTCAGGGCAGCCTTTCATCATCTGCCACAGAAGTAGTCTCCGAACC
CGCACCGCAAGTGAAGGATCTGAACAACCAAGAAGAGAGCCTCTATCCAGAGGACCTCAGCACCCCT
AGTAGGCCTCCTCACCCAGAGCCTGCAAGCCCAAGGCCCTCCTCAGGGAACATACCTTCCAGCCCT
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AATGAAAACATCCACAATCAGAACCCTGAAGAAGTGTACTTCCCCACCTTAATGACATCTCAGGTT
GCTTCAGAGCCTGGAGAGGCAAGAAGATGGAAGACAAGGAAAAGGATAATAAGCTTATCTCAGCTAAC
TCCTCGGAGGGCAAGACCAGCTTCAAGTCTCCATGGTACCAGAAAACAACAACCTCACAGCACCTGAA
CCTCAAGAAGAGGTATCCACAAGTAAAATCCACAACT
ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238916  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MRGMPGARTSSSGASENHRARGQGGPQGVGRMAEGKAGGAAGLFAKQVQKKFSRAQEKVLQKLGKAVE
TKDERFEQSASNFYQQAEHGKLYKDLKNFLSAVKVMHESKRVSETLQEIYSSSEWDGHEELKAIWVER
IAKRGRKLVYDYSARHLEAVQNAKKKDEAKTAKAEFEFNKAQTVFEDLNQELLEELPILYNSRIGCYV
TIFQINSLRDVYREMSKLNHNLYEVMKLEKQHSNKVFVVKGLSSSSRRSLVISPPVRTATVSSPLT
SPTSPSTLSLKSESESVSATEDLAPDAAQGEDNSEIKELLEEEEEIEKEGSEASSSEDEPLPACNGPAQ
AQPSPPTTERAKSQEEVLPSTTTPSPGGALSPSQPSSSAEVVLRTRTASEGSEQPKKRASIQRTSAPP
SRPPPPRATASPRPSSGNISSPTASGGGSPSPRASLTGTASPRTSLEVPNPEPPEKPVRTPEAKE
NENIHNQNPPEELCTSPMLTMSQVASEPGEAKKMEDKEKDNKLISANSSEGDQLQVSMVPENNNLTAPE
PQEEVSTSENPQL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
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```

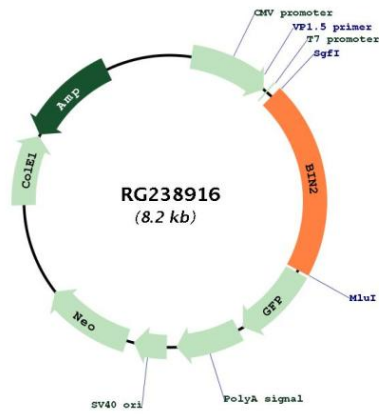
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


- ACCN:** NM\_001290008
- ORF Size:** 1695 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\\_001290008.1](#), [NP\\_001276937.1](#)
- RefSeq Size:** 2168 bp
- RefSeq ORF:** 1602 bp
- Locus ID:** 51411
- UniProt ID:** [Q9UBW5](#)
- Cytogenetics:** 12q13.13
- MW:** 61.6 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 RG238916