

Product datasheet for **RG208253**

BIN2 (NM_016293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BIN2 (NM_016293) 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:

>RG208253 representing NM_016293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAGGGCAAGGCAGGCGGCGCGCCGGCCTCTTCGCCAAGCAGGTGCAGAAGAAGTTTAGCAGGG
 CCCAGGAGAAGGTGCTGCAGAAATTGGGAAAGCTGTAGAAACCAAGATGAACGATTTGAACAAAGCGC
 TAGCAACTTCTACCAACACAGGCAGAAGGCCACAAGCTGTACAAGGACCTGAAGAACTTCTTAGTGCA
 GTCAAAGTGATGCATGAAAGTTCAAAAAGAGTGTAGAAAACCTGCAGGAGATCTACAGCAGCGAGTGGG
 ACGGTCATGAGGAGCTGAAGGCCATCGTATGGAATAATGATCTCCTTTGGGAAGACTACGAGGAGAACT
 GGCTGACCAGGCTGAAGGACCATGAAATCTATGTTGCCAGTTCAGTGAATTAAGGAGAGAATTGCC
 AAGCGGGTTCGGAACCTCGTGGACTATGACAGTGCCCGACACCCTGGAGGCAGTGCAGAAATGCCAAGA
 AGAAAGATGAGGCCAAGACTGCCAAGGCAGAGGAAGTTCACAAAGCCAGACTGTGTTGAAGATCT
 GAACCAAGAACTACTAGAGGAGCTGCCTATTCTTTATAATAGTCGTATTGGCTGCTATGTGACCATCTC
 CAAAACATTTCCAACCTGAGGGATGTCTTCTACAGGAAATGAGCAAGCTGAACCAATCTCTACGAGG
 TGATGAGCAAACCTGGAGAAGCAACATTCGAATAAAGTCTTTGTGGTGAAGGGACTGTCAAGCAGCAGCAG
 GCGCTCTTTAGTCATTTCTCCCCAGTTCGAACAGCTACAGTCTCCAGTCTTACCTCACCTACTAGT
 CCCTCTACACTTTCTTGAAGAGTGAGAGTGAATCTGTCTCAGCAACTGAAGATCTGGCACCTGATGCAG
 CCCAAGGGGAAGACAATCTGAGATCAAGGAGCTCTTAGAAGAGGAGGAAATAGAGAAGGAAGGATCTGA
 AGCAAGCTCCTCTGAGGAAGATGAGCCTCTACCAGCCTGCAATGGCCCGCCAGGCCAGCCCTCTCCT
 ACCACTGAGAGGGCAAGTCCCAGGAGGAAGTCTCCCCAGCTCCACAACCTCCATCACCAGGCGGAGCCC
 TGAGCCCTTCAGGCGAGCCTTCATCATCTGCCACAGAAGTAGTCCCTCGAACCCGACCCGAAGTGAAGG
 ATCTGAACAACCAAGAAGAGAGCCTCTATCCAGAGGACCTCAGCACCCCTAGTAGGCCTCTCCACCC
 AGAGCCACTGCAAGCCCAGGCCCTCTCAGGGAACATACCTTCCAGCCCTACAGCCTCTGGAGGGGTT
 CACCCACCAGCCCTAGGGCCTCTTGGGGACTGGGACTGCAAGTCTTAGGACCTCCCTAGAGGTCTCTCC
 TAATCCAGAACCACCAGAGAAGCCAGTAAGAAGTCTCAGGCCAAAGAAAATGAAAACATCCACAATCAG
 AACCTGAAGAAGTGTACTTCCCCACCTTAATGACATCTCAGGTTGCTTACAGCCTGGAGAGGCA
 AGAAGATGGAAGACAAGGAAAAGGATAATAAGCTTATCTCAGTACTCCTCGGAGGGCCAAAGACCAGT
 TCAAGTCTCCATGGTACCAGAAAACAACCTCACAGCACCTGAACCTCAAGAAGAGGTATCCACAAGT
 GAAAATCCACAACCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208253 representing NM_016293
 Red=Cloning site Green=Tags(s)

MAEGKAGGAAGLFAKQVQKFSRAQEKVLQKLGKAVETKDERFEQSASNFYQQQAEGHKLKLDLKNFLSA
 VKVMHESKRVSSETLQEIYSSEWDGHEELKAIWVWNNDLLWEDYEEKLADQAVRTMEIYVAQFSEIKERIA
 KRGRKLVQYDSARHLEAVQNAKKKDEAKTAKAEFEFNKAQTVFEDLNQELLEELPILYNSRIGCYVTF
 QNISNLRDVFYREMSKLNHNLVEVMSKLEKQHSNKVVFVVKGLSSSSRRSLVISPPVRTATVSSPLTSPTS
 PSTLSLKSESESVSATEDLAPDAAQGEDNSEIKELLEEEIEKEGSEASSSEDEPLPACNGPAQAQSP
 TTERAKSQEEVLPSTTPSPGGALSPSQPSSSATEVVLRTRTASEGSEQPKKRASIQRTSAPPSRPPPP
 RATASPRPSSGNIPSSPTASGGGSPTSPRASLGTGTASPRTSLEVPNPEPPEKPVRTPEAKENENIHNQ
 NPEELCTSPMLTSQVASEPGEAKKMEDKEKDNKLI SADSSEGGDQLQVSMVPENNNLTAPEPQEEVSTS
 ENPQL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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_016293.2 , NP_057377.2
RefSeq Size:	2228 bp
RefSeq ORF:	1698 bp
Locus ID:	51411
UniProt ID:	Q9UBW5
Cytogenetics:	12q13.13
Domains:	BAR
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]