

Product datasheet for **RG220834**

GTPBP9 (OLA1) (NM_013341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP9 (OLA1) (NM_013341) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTPBP9
Synonyms:	DOC45; GBP45; GTBP9; GTPBP9; PTD004
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220834 representing NM_013341 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCCCTAAAAGGGAGGTGATGGAATTAAACCACCCCAATCATTGGAAGATTGGAACCTCACTGA
 AAATTGGTATTGTTGGATTGCCAAATGTTGGGAAATCTACTTTCTTCAATGTGTTAACCAATAGTCAGGC
 TTCAGCAGAAAATTTCCCGTTCTGCACTATTGATCCTAATGAGAGCAGAGTACCTGTGCCAGATGAAAGG
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 CCTATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGCCCATTA
 TAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGAGATAAAAACTAAACCTGAATATGATATAATGTG
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 ATTGAAGTGTGAATAAACACTTATTTTGACTTCAAAACCAATGGTCTACTTGGTTAATCTTTCTGAAA
 AAGACTACATTAGAAAGAAAAACAAATGGTTGATAAAATTAAGAGTGGGTGGACAAGTATGACCCAGG
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 AAGTATCTGGAAGCGAACATGACACAAAGTGCTTTGCCAAAGATCATTAAAGGCTGGGTTTGACGACTCC
 AACTAGAATACTTTTCACTGCAGGCCAGATGAAGTGCGTGCATGGACCATCAGGAAAGGGACTAAGGC
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 GAAGATTTTAAAGAGGAAGGTTCTGAAATGCAGTCAAGGCTGCTGGAAAGTACAGACAACAAGGCAGAA
 ATTATATTGTTGAAGATGGAGATATTATCTTCTCAAATTTAACACACCTCAACAACCGAAGAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG220834 representing NM_013341
 Red=Cloning site Green=Tags(s)

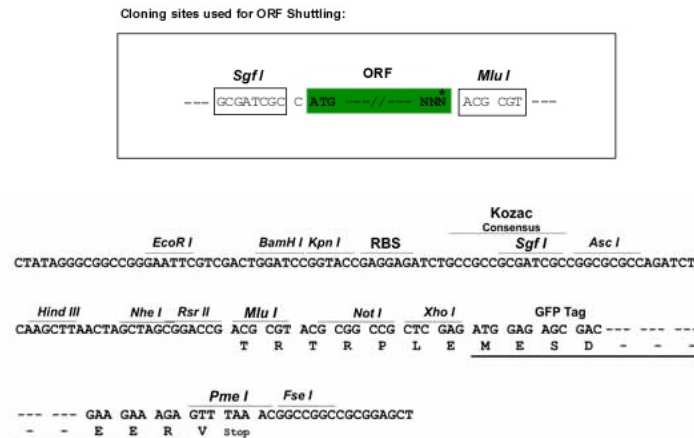
MPPKGGDGIKPPPIIGRFGTSLKIGIVGLPNVGKSTFFNVLNSQASAENFPFCTIDPNESRVVPDER
 FDFLCQYHKPASKIPAFNLNVVDIAGLVKGAHNGQGLGNAFLSHISACDGIFHLTRAFEDDDITHVEGSVD
 PIRDIEIIHEELQLKDEEMIGPIIDKLEKVAVRGGDKLKPEYDIMCKVKSVIDQKKPVRFYHDWNDKE
 IEVLNKHFLFTSKPMVYLVNLSEKDYIRKKNWLIIKIEWVDKYDPGALVIPFSGALELKLQELSAEERQ
 KYLEANMTQSALPKIIKAGFAALQLEYFFTAGPDEVRAWTIKGTAPQAAGKIHTDFEKGFIKAEVMKY
 EDFKEEGSENAVKAAGKYRQQGRNYIVEDGDIIFKFNTQPQPKKK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_013341

ORF Size: 1188 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).

Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013341.5](#)

RefSeq Size: 4356 bp

RefSeq ORF: 1191 bp

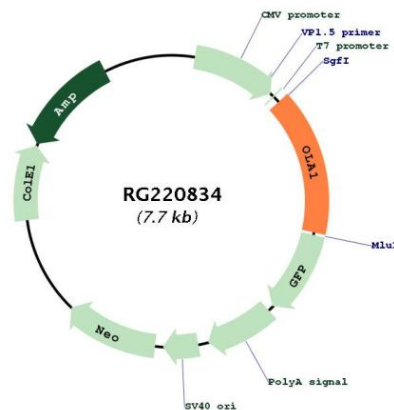
Locus ID: 29789

UniProt ID: [Q9NTK5](#)

Cytogenetics: 2q31.1

Gene Summary: This gene encodes a member of the GTPase protein family. The encoded protein interacts with breast cancer-associated gene 1 (BRCA1) and BRCA1-associated RING domain protein (BARD1), and is involved in centrosome regulation. Overexpression of this gene has been observed in multiple types of cancer and may be associated with poor survival. Pseudogenes of this gene have been defined on chromosomes 17 and 22. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RG220834