

Product datasheet for **MG220975**

Ric8b (NM_001013441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ric8b (NM_001013441) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ric8b
Synonyms:	BC051080; Ric-8; Ric-8b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220975 representing NM_001013441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATGAAGAGCGGCCCTCTACATCGTCCGGCCGGCAGCGGGGGTATCGAGCGGGTCTGAGGG
 ATTACAGCGACAAGCATAGGGCTACTTTCAAATTTGAATCAGCAGATGAAGATAAAAAGAAAGAACTCTG
 TGAAGGCATATTTAAGGTCCTTGCAAGGAGGTCCCAACGACATGCCAAGTGTCTGCTGGAAGTACTC
 CGCATTCTCTCCAGAGACAAAAAGATCTTAGTTCCTGTAACAATAAGGAAAATATGCAAATACTGCTGA
 GACTAGCCAAGCTCCACGAGTCAGACGATTTCTTTGGAGAAGGTGTGAGAGTTCCAGTTATTGTGGAATC
 ATTTGAAGTGTCTGTAAACATCGTGTCAACAGTCAGATGGCACAGCAGCTTAGCCTGGAAGTGAATCTC
 GCTGCAAAGCTCTGTAACCTCCTAAGGAAGTGAAGGACCGAAAATTTATCAATGACATAAAGTGCTTTG
 ACTTGCCTTGTCTTCTGCTTGTCACTTTTGCACACTGACATCAGGTCACAATTGCGCTATGAGCTCCA
 GGGACTCCGCTGCTAACCCAGATCTTGGAAAGTGCCTTTAGCATCAAGTGGACCGATGAGTATGAGTCG
 GCCATAGACCATAATGGACCTCCTCTCACCTCAGGAGACAGACTGTGCCATTGAGGCCCTCAAAGCTC
 TGTTCAATGTGACGGTAGACAGTTGGAAGTGCATAAAGAGAGCGATTCTCATCAGTTTCGTGTCATGGC
 AGCTGTCTTCGCCATTGTTACTAATTGTAGGTCCTCAACTGAAGACAAAACCGAAGAGCTGCACAGTAAT
 GCCGTCAACCTTTTAAGCAATGTTCCAGTCTCTTGTGGATGTTCTCATTTGTCCATTAACCCATGAAG
 AAACAGCCCAAGAGGCAGCAACTCTAGATGAACTGCCAGTGATAAAAACAACGGAGAAAGACACAGCTTT
 GAAAAACAGTACCATGGTATAACAATGGCATGAATATGGAGGCCATTACGTTTTACTCAATTTTATGGAG
 AAGAGAATTGATAAGGGAAGCAGCTATAGAGAGGGTCTAACTCCAGTTCTCAGCTTATTAACAGAATGTT
 CCCGAGCCCATCGAACATCCGAAAATTTCTCAAAGATCAGTTTTACCGCTTTGAGAGATGTGACAAA
 TCGACCAGAAGTCGGCTCAACCGTGAGAAATAAGCTGGTTCGTCTCATGACACATGTTGACCTCGGAGTC
 AAGCAGATTGCTGCTGAGTTCCTTTTTGCTCTTTCGAAAGAGAGAGTGGATAGCCTGCTGAAATACACTG
 GCTATGGGAACGCTGCAGGACTCTTGGCGCCAGGGCCCTCTTGGCTGGAGGAAGAGGAGATAATTGGTA
 CTCAGAGGACGAGGACACGGACTGAAGAATACAAAACGAAAACGAAAACGAAAACGAAAACGAAAACG
 ATGGGACTAAAACCTGACGGGACAATAACGCCTTTGGAGGAAGCACTCAGCCAGTATTCTGTCATCGAAG
 AGACCAGCTCGGACACAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220975 representing NM_001013441
 Red=Cloning site Green=Tags(s)

MDEERALYIVRAGEAGAIERVLRDYSDKHRATFKFESADEDKRKKLCEGIFKVLVKEVPTTCQVSCLEVL
 RILSRDKKILVPVTTKENMQILLRLAKLHESDDSLKVEFPVIVESLKCLCNIVFNSQMAQQLSLELNL
 AAKLCNLLRKCKDRKFINDIKCFDLRLLFVLSLLHTDIRSQLRYELQGLPLLQILESAFSIKWTDEYES
 AIDHNGPPLSPQETDCAIEALKALFNVTVDSWKVHKESSHQFRVMAAVLRHCLLIVGPTEDKTEELHSN
 AVNLLSNVPVSLDVLICPLTHEETAQEAAATLDELPSDKTTEKDTALKNSTMVYNGMNMEAIHVLLNFME
 KRIDKGSYREGLTPVLSLLTECSRAHRNIRKFLKDQVLPPLRDVTRNPEVGVSTVRNKLVRMLMTHVDLGV
 KQIAAEFLFVLCKERVDSLLKYTYGNAAGLLAARGLLAGGRGDNWYSEDEDTDTEEYKNAKPKEELLKP
 MGLKPDGTITPLEEALSQYSVIEETSSDTD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001013441

ORF Size: 1560 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.

RefSeq: [NM_001013441.2](#), [NP_001013459.1](#)

RefSeq Size: 2920 bp

RefSeq ORF: 1563 bp

Locus ID: 237422

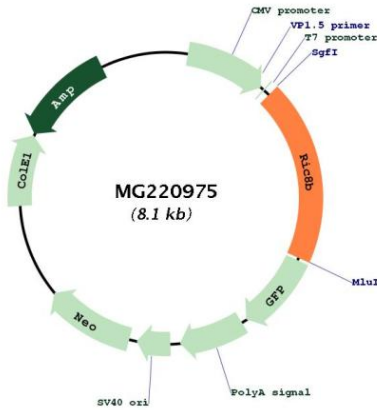
UniProt ID: [Q80XE1](#)

Cytogenetics: 10 C1

Gene Summary:

Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins by exchanging bound GDP for free GTP (By similarity). Able to potentiate G(olf)-alpha-dependent cAMP accumulation suggesting that it may be an important component for odorant signal transduction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220975