

Product datasheet for **RG208224**

RANBP3L (NM_145000) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RANBP3L (NM_145000) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | RANBP3L |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG208224 representing NM_145000 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTACCATACCAAGAAAAGGCAGCAGCCACCTGCCTGGCAGTTTGCACACCTGTAACTGAAGCTGC
AGGAGGACCGGCACAGCAAGAAAAATCTGTCAATTCATCAACCCATATTTGTTTTGAAAAGGGAGAACA
AACTTTTAAGAGACCTGCAGAAGACACCCTGTATGAAGCAGCAGAACCAGAATGTAATGGTTTTCCAAGA
AAGCGGTACGGTCTTCATCTTTACTTTTCATATTACAGATTCTCAGTCCCAGGGAGTGAGGAAAAACA
ATGTTTTTATGACATCAGCTCTTGTGCAAAGTAGTGTTGATATAAAGAGTGTGAACAAGTCCCTGTGAA
ACATTCTAAACATGTTATTAGACCTGCTATTTTGCAGCTACCTCAAGCTCGAAGTTGTGCAAAAGTAAGA
AAAACATTTGGACACAAGGCACTGGAATCTTGCAAGACTAAAGAAAAACAATAAAGATTTCTGAGG
GAAATTCCTATTTGTTAAGTGAAAATTTATCAAGGGCTAGAATTCAGTCCAGCTGTCTACTAACCAGGA
CTTTTAGGTGCAACATCAGTAGGATGTCAACCAATGAAGATAAATGTTCTTTAAAAGCTGCAGTTCC
AATTTTGTGTTTTGGAGAAAACATGGTAGAAAGATTTTGGGACTCAAAAACACCCAGCCTCACTTG
AAAATGATTCATATGCCAAGGAAAAACCATTCAAATCCATTCCGAAATTCCTGTCAACTTTTTAAGTTC
AAGAACAGACTCTATTAATAACTTCCCTAATGAATCAGCTGCTGCATTCTCTCCCAACCATCAGCA
AAATGCTTGCTGGAGAAAATTGATGTTATAACAGGGGAGGAAACAGAACAATAATGTGTTAAAGATAAACT
GCAAGCTTTTCATATTCAACAAAACAACAATCCTGGATTGAAAGGGGACAGGGAACGTTGAGACTGAA
TGACACAGCAAGCACTGACTGTGGAACATTACAGTCAAGACTAATTATGCGCAATCAAGGCACTAAGG
CTGATCCTCAACAGCAAACTCTGGGCCAAATGAAGATTCAAAGAGCAAACCACAAAAATGTACGAATAA
CAGCTACTGATTTAGAAGACTATAGCATCAAAATATTTTAATTCAGGCCAGTGCCCAAGATACAGCATA
TTTGTATGCAGCAATACATCATCGTCTTGTGCACTTCAAAGCTTCAATAAGCAGAGAGATGTCAATCAA
GCTGAAAGCCTGTCAGAAAACAGCCCAACAATGAACTGCGAAAGCTGTGATGAGAATGAGGATGATTTCA
TCCAAGTCACTAAAAATGGATCAGATCCTTCTAGTTGGACTCACAGACAGTCGGTTGCCTGTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208224 representing NM_145000
 Red=Cloning site Green=Tags(s)

MTTIPRKGSSHLPGSLHTCKLKLQEDRRQEQESVIAQPIFVFEKGEQTFKRPAEDTLYEAAEPECNGFPR
 KRVRSSSFTFHI TDSQSQGVRKNNVFM T SALVQSSVDIKSAEQGPVKHSHKHIRPAILQLPQARSCAKVR
 KTFGHKALESCKTEKTNKI SEGNSYLL SENLSRARISVQLSTNQDFLGATSVGCQPNEDKCSFKSCSS
 NFVFGENMVERVLGTQKL TQPQLEND SYAKEKPFKSIPKFPVNF LSSRTDSIKNTSLIESAAAFSSQPSR
 KCLLEKIDVITGEETEHNVLKINCKLF IFNKTTQSWIERGRGTLRLNDTASTDCGLTQSR L IMRNQGLR
 LILNSKLWAQMKIQRANHKNVRITATDLEDYSIKIFLIQASAQDTAYLYAAIHHRLVALQSFNKQRDVNQ
 AESLSETAQQLNCE SCDENEDDFIQVTKNGSDPSSWTHRQSVACS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145000

ORF Size: 1395 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_145000.2](#), [NP_659437.2](#)

RefSeq Size: 2570 bp

RefSeq ORF: 1398 bp

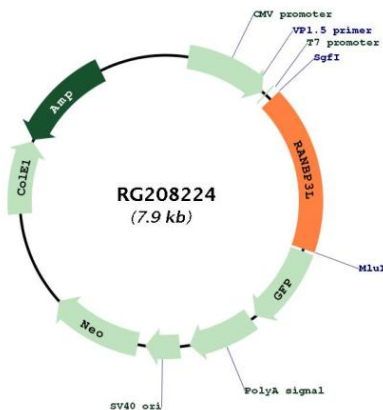
Locus ID: 202151

UniProt ID: [Q86VV4](#)

Cytogenetics: 5p13.2

Gene Summary: Nuclear export factor for BMP-specific SMAD1/5/8 that plays a critical role in terminating BMP signaling and regulating mesenchymal stem cell differentiation by blocking osteoblast differentiation to promote myogenic differentiation. Directly recognizes dephosphorylated SMAD1/5/8 and mediates their nuclear export in a Ran-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208224