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Product datasheet for RG228405

RANBP3L (NM_001161429) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RANBP3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG228405 representing NM_001161429
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTACCATACCAAGAAAAGGCAGCAGCCACCTGCCTGGCAGTTTGCACACCTGTAAACTGAAGCTGC
AGGAGGACCGGCGACAGCAAGAAAAATCTGTCATTGCTCAACCCATATTTGTTTTTGAAAAGGGAGAACA
AACTTTTAAGAGACCTGCAGAAGACACCCTGTATGAAGCAGCAGAACCAGAATGTAATGGTTTTCCAACA
AAGCGTGTACGGTCTTCATCTTTTACTTTTCATATTACAGATTCTCAGTCCCAGGGAGTGTCAACCTTGT
CTCAGAAGCAAATGAGATGTTCATCCGTCACTAACCTCCCAACCTTCCCCCATTCTGGGCCAGTGAGGAA
AAACAATGTTTTTATGACATCAGCTCTTGTGCAAAGTAGTGTTGATATAAAGAGTGCTGAACAAGGTCCT
GTGAAACATTCTAAACATGTTATTAGACCTGCTATTTTGCAGCTACCTCAAGCTCGAAGTTGTGCAAAAG
TAAGAAAAACATTTGGACACAAGGCACTGGAATCTTGCAAGACTAAAGAAAAAACAAATAATAAGATTTC
TGAGGGAAATTCCTATTTGTTAAGTGAAAATTTATCAAGGGCTAGAATTTCAGTCCAGCTGTCTACTAAC
CAGGACTTTTTAGGTGCAACATCAGTAGGATGTCAACCAAATGAAGATAAATGTTCTTTTAAAAGCTGCA
GTTCCAATTTTGTTTTTGGAGAAAACATGGTAGAAAGAGTTTTGGGTACTCAAAAACTCACCCAGCCTCA
ACTTGAAAATGATTCATATGCCAAGGAAAAACCATTCAAATCCATTCCGAAATTTCCTGTCAACTTTTTA
AGTTCAAGAACAGACTCTATTAAAAATACTTCCCTAATTGAATCAGCTGCTGCATTCTCTTCCCAACCAT
CACGAAAATGCTTGCTGGAGAAAATTGATGTTATAACAGGGGAGGAAACAGAACATAATGTGTTAAAGAT
AAACTGCAAGCTTTTCATATTCAACAAAACAACACAATCCTGGATTGAAAGGGGCAGAGGAACGTTGAGA
CTGAATGACACAGCAAGCACTGACTGTGGAACATTACAGTCAAGACTAATTATGCGCAATCAAGGCAGTC
TAAGGCTGATCCTCAACAGCAAACTCTGGGCCCAAATGAAGATTCAAAGAGCAAACCACAAAAATGTACG
AATAACAGCTACTGATTTAGAAGACTATAGCATCAAAATATTTTTAATTCAGGCCAGTGCCCAAGATACA
GCATATTTGTATGCAGCAATACATCATCGTCTTGTTGCACTTCAAAGCTTCAATAAGCAGAGAGATGTCA
ATCAAGCTGAAAGCCTGTCAGAAACAGCCCAACAATTGAACTGCGAAAGCTGTGATGAGAATGAGGATGA
TTTCATCCAAGTCACTAAAAATGGATCAGATCCTTCTAGTTGGACTCACAGACAGTCGGTTGCCTGTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

>RG228405 representing NM_001161429
Red=Cloning site Green=Tags(s)

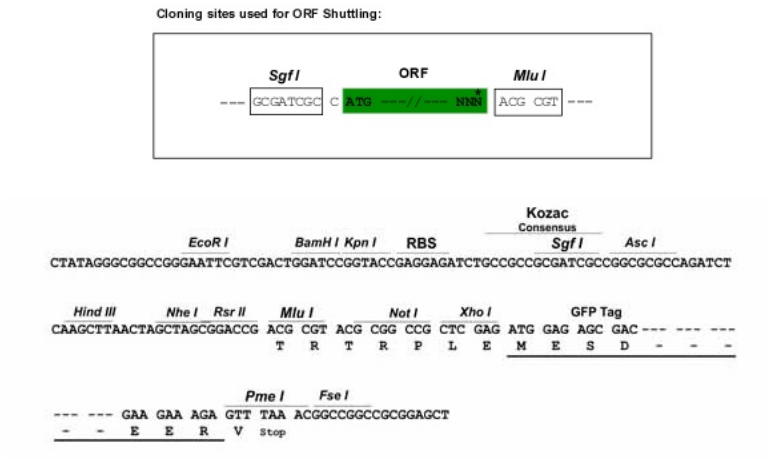
MTTIPRKGSSHLPGSLHTCKLKLQEDRRQQEKSVIAQPIFVFEKGEQTFKRPAEDTLYEAAEPECNGFPT
KRVRSSSFTFHITDSQSQGVSTLSQKQMRCSSVTNLPTFPHSGPVRKNNVFMTSALVQSSVDIKSAEQGP
VKHSKHVIRPAILQLPQARSCAKVRKTFGHKALESCKTKEKTNNKISEGNSYLLSENLSRARISVQLSTN
QDFLGATSVGCQPNEDKCSFKSCSSNFVFGENMVERVLGTQKLTQPQLENDSYAKEKPFKSIPKFPVNFL
SSRTDSIKNTSLIESAAAFSSQPSRKCLLEKIDVITGEETEHNVLKINCKLFIFNKTTQSWIERGRGTLR
LNDTASTDCGTLQSRLIMRNQGSLRLILNSKLWAQMKIQRANHKNVRITATDLEDYSIKIFLIQASAQDT
AYLYAAIHHRLVALQSFNKQRDVNQAESLSETAQQLNCESCDENEDDFIQVTKNGSDPSSWTHRQSVACS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001161429

ORF Size:

1470 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_001161429.3

RefSeq Size: 2635 bp

RefSeq ORF: 1473 bp

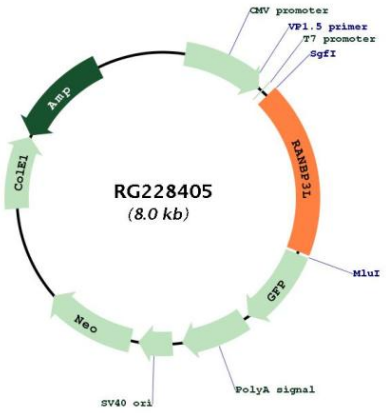
Locus ID: 202151

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 differention. 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 RG228405