

Product datasheet for **RR214148**

Bub1 (NM_001106507) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bub1 (NM_001106507) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bub1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214148 representing NM_001106507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAACCTCGGAAATGTCTTTTCGTATGTTTGAAGCCCATATGCAAAGCTACAAGGGTAAATGACCCAC
TTGGAGAATGGGAAAGCTTTATGAAGTGGGTAGAAGAAAATTTTCCTGACAATAAAGAACACTTGGTGAC
AATATTAGAACATTTAATGAAGGAATTCCTAGATAAGAAGAACTACCACAATGATTCAGATTTCATCAGT
TATTGCTTAAAATTTGCTGAGTACAACAGTGACCGTCATCAGTTTTTTGAGTTTTCTGTACAGCCAGGGAG
TTGGAACCAAGTCATCATATCTATACCTGTCTGGCAGGGCATCTGGAAGCCCAGGGAGAGCAGCAGCA
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TAGGAGTCAGGGTTCAGAATGTTCTGGTGTGGCACCTTCTACTTGTGACGAAAAGTCTAATATTAGGGAA
CAAAGAGTGATCATGATTTCCAAGTCAGAATGCTCTGTCAGCTCATCTATGGCACCAAGCTGAAGCTC
AGCAAGTTATGTACTGCAAAGAAAAGCTTATCCGTGGAGATTCGGAATTTTCATTTGAAGAGCTGAGAGC
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GATGAGTTTATGGATGACTCAACAGTATGTGGTATTCGCTACAACAAAACCTAGCTCCCAGTCCTAAAA
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Protein Sequence:

>RR214148 representing NM_001106507
 Red=Cloning site Green=Tags(s)

MDNLGNVFRMF EAHMQSYK GNDPLGEWESFMK WVEENFPDNKEHLVTILEHLMKEFLDKKNYHNSRFIS
 YCLKFAEYNSDRHQF EFLYSQGVG TKSSYL YLSWAGHLEAQGEQQHASAIFQTGIHNQAEP MELLQQQY
 RLFQARLTGTHLPDQATTSEPLHSAQILNQVMLTKSSPETENSACVPRSQSECSGVAPSTCDEKSNIRE
 QRVIMISKSECSVSSMAPKPEAQQVMYCKEKLIRGDSEFSFEELRAQKYNQRKKHEQWVSEDRNYMKRK
 EANAFAEEQLLKQKMDLHKLHQVVELSHKDLPAENRPDANLVCVQNTCSHQELRGLSLSSINQQTSE
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 DAF EAQFQKNAVF SEDWGVKIMT LSSAFPIFEDGNKENYGLPQPKNKPLGARTFGERSLSKCSRSR
 NEMPHT DEFMDDSTVCGIRYNKTLAPSPK SIGDFTSAAQLSSTPFHKFPADPLQIPEDKENVVATQY
 THMALD SCK ENMVDP SKDRKLG LIQEKISASL SCPSQPATGGLLTQEAVFSLETYKCTGTDRAIMEDL
 SDASAGLQVEW VQTSSFGNVNAPNFTIENPWDELILKLLSGLSKPVTSYSNTFEWQSKLPAIKTKTEF
 QLGSLLVYVNH L GEGAFQVFEA IHGDTKSKQKCILKVQKPANSWEFYIGMQLMERLKPEVHHMFIK
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 IKPDNFILGHRFLEQDDE DLATGLTLIDLGQSIDMKLFPKGT VFTGKCETSGFQCPEMLSNKPWNY
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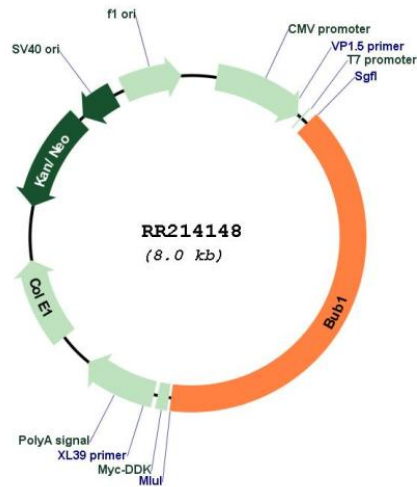
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001106507

ORF Size: 3177 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:	<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:	<u>NM_001106507.1, NP_001099977.1</u>
RefSeq Size:	4583 bp
RefSeq ORF:	3180 bp
Locus ID:	296137
Cytogenetics:	3q36
MW:	120.1 kDa