

Product datasheet for **RG233099**

RAP80 (UIMC1) (NM_001199297) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RAP80 (UIMC1) (NM_001199297) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | UIMC1 |
| Synonyms: | RAP80; X2HRIP110 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG233099 representing NM_001199297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACGGAGAAAGAAAAAGTTAAAGAAGTCTCCGAATCTCGAACCTGGAGAAGAAGGATGTGGAAA
 CTACCAGTTCTGTCAAGAGGAAGCGTAGACTTGAGGATGCATTATTGTGATATCCGATAGTGA
 TGGAGAGGAACCAAGGAGGAAAATGGGTTGCAGAAAACGAAGACAAAACAGTCGAATAGAGCAAAGTGT
 TTGGCCAAAAGAAAAATCGCACAGATGACAGAAGAAGAACAGTTTGTCTGGCTCTCAAAATGAGTGAGC
 AGGAAGCTAGGGAGGTGAACAGCCAGGAGGAGGAAGAAGAGGAGCTTTGAGGAAAGCCATTGCTGAAAG
 CCTGAATAGTTGCCGGCCTTCTGATGCTCCGCTACCAGATCTCGACCTCTGGCCACTGGACCGTCTTCC
 CAGTCCCATCAAGAGAAAACCACAGACTCTGGGCTCACTGAAGGCATATGGCAGCTGGTACCTCCATCAC
 TGTTTAAAGGCTCACATATCAGTCAGGGAACGAGGCTGAGGAAAGAGAGGAGCCTTTGGACCACACTGA
 AAAACTGAAGAGGAGCCGGTCTCTGGCAGCTCAGGAAGCTGGGACCAGTCAAGCCAGCCAGTGTGTTGAG
 AATGTGAACGTTAAATCTTTTGACAGATGTACTGGCCACTCGGCTGAGCACACACAGTGTGGGAAGCCAC
 AGGAAAGTACTGGGAGGGTCTGCTTTTCTCAAAGCTGTCCAGGGTAGCGGGGACACATCTAGGCACTG
 TCTACCTACCCTAGCAGATGCCAAAGGTCTCCAGGACACTGGGGGCACTGTGAATATTTCTGGGGTATT
 CCATTCTGCCCTGATGGAGTAGACCCTAACCAAGTATACCAAGGTCATTCTCTGCCAGTTGGAGGTTTATC
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 ACCTCCTTCTCTGATCCAGAATGAATGTGGCAAGGAGAGCAGGCTAGTGAGAAAAATGAATGCATCTCA
 GAAGATATGGGAGATGAAGACAAAGAGGAGAGGAGGAGTCTAGGCATCTGACTGGCACTCAAAAACCA
 AGGATTTCCAGGAAAGCTCAATTAAGCTTGAAGAGAAAATTTGTTGGAGGAAGAACAACAACCAG
 TCATGGTCAGTCTTCCCAAGGGATTGTTGAAGAACTTCTGAAGAGGGAACTCTGTACCTGCTTCACAA
 AGTGTGCTGCTTTGACCAGTAAGAGAAGCTTAGTCCTTATGCCAGAGAGTTCTGCAAGAAGAAATCACTG
 TTTGCTCTGAGACCCAGCTAAGTTCCTCTGAACTTTTGACCTTGAAAGAGAAGTCTCTCCAGGTAGCAG
 AGATATCTTGGATGGAGTCAGAATAATAATGGCAGATAAGGAGGTTGGTAACAAGGAAGATGCTGAGAAG
 GAAGTAGTATTTCTACCTTCTCATCCAGTAACCAGGTATCCTGCCCGCTATGTGACCAATGCTTTCCAC
 CCACAAAGATTGAACGACATGCCATGACTGCAATGGTCTGATGGAGGAAGATACAGTATTGACTCGGAG
 AAAAAAGAGGCCAAGACCAAGAGTGACAGTGGGACAGCTGCCAGACTTCTCTAGACATTGACAAGAAT
 GAGAAGTGTACCTCTGTAATCCCTGGTCCCATTAGAGAGTATCAGTGTGATGTGGACTCCTGTCTCC
 AGCTTGCAAAGGCTGACCAAGGAGATGGACCTGAAGGGAGTGGAAGAGCATGTTCAACTGTGGAGGGGAA
 GTGGCAGCAGAGGCTGAAGAACC AAAAGAAAAAGGCCACAGTGAAGGCCGACTCCTTAGTTTCTTGAA
 CAGTCTGAGCACAAAGACTTCAGATGCAGACATCAAGTCTTCAGAAAACAGGAGCCTTCAGGGTGCCTTAC
 CAGGGATGGAAGAGGCAGGCTGCAGCAGAGAGATGCAGAGTCTTTTACACGCTCGTACTTAAATGAATC
 TCCCGTCAAGTCTTTTGTTCATTTTCCAGAAAGCCACAGATTGCTTAGTGGACTTTAAAAAGCAAGTTACT
 GTCCAGCCAGGTAGTCGGACACGGACCAAAGCTGGCAGAGGAAGAAGGAGAAAATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233099 representing NM_001199297
 Red=Cloning site Green=Tags(s)

M P R R K K K V K E V S E S R N L E K K D V E T T S S V S V K R R R L E D A F I V I S D S D G E E P K E E N G L Q K T K T K Q S N R A K C
 L A K R K I A Q M T E E E Q F A L A L K M S E Q E A R E V N S Q E E E E E L L R K A I A E S L N S C R P S D A S A T R S R P L A T G P S S
 Q S H Q E K T T D S G L T E G I W Q L V P P S L F K G S H I S Q G N E A E E R E E P W D H T E K T E E E P V S G S S G S W D Q S S Q P V F E
 N V N V K S F D R C T G H S A E H T Q C G K P Q E S T G R G S A F L K A V Q G S G D T S R H C L P T L A D A K G L Q D T G G T V N Y F W G I
 P F C P D G V D P N Q Y T K V I L C Q L E V Y Q K S L K M A Q R Q L L N K K G F G E P V L P R P P S L I Q N E C G Q G E Q A S E K N E C I S
 E M D G D E D K E E R Q E S R A S D W H S K T K D F Q E S S I K S L K E K L L L E E E P T T S H G Q S S Q G I V E E T S E E G N S V P A S Q
 S V A A L T S K R S L V L M P E S S A E E I T V C P E T Q L S S E T F D L E R E V S P G S R D I L D G V R I I M A D K E V G N K E D A E K
 E V A I S T F S S S N Q V S C P L C D Q C F P P T K I E R H A M Y C N G L M E E D T V L T R R Q K E A K T K S D S G T A A Q T S L D I D K N
 E K C Y L C K S L V P F R E Y Q C H V D S C L Q L A K A D Q G D G P E G S G R A C S T V E G K W Q Q R L K N P K E K G H S E G R L L S F L E
 Q S E H K T S D A D I K S S E T G A F R V P S P G M E E A G C S R E M Q S S F T R R D L N E S P V K S F V S I S E A T D C L V D F K K Q V T
 V Q P G S R T R T K A G R G R R R K F

TRTRPLE - GFP Tag - V

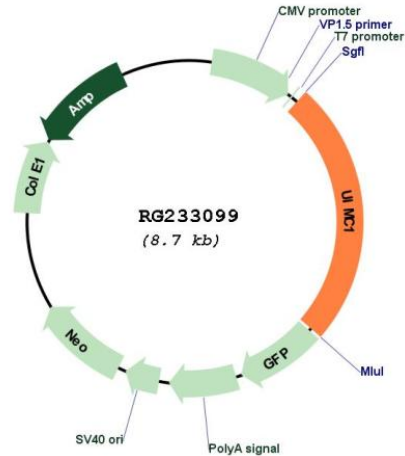
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001199297

ORF Size: 2157 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_001199297.2](#)

RefSeq Size: 2825 bp

RefSeq ORF: 2160 bp

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|--------------------------|--|
| Locus ID: | 51720 |
| UniProt ID: | Q96RL1 |
| Cytogenetics: | 5q35.2 |
| Protein Families: | Druggable Genome, Transcription Factors |
| Gene Summary: | This gene encodes a nuclear protein that interacts with Brca1 (breast cancer 1) in a complex to recognize and repair DNA lesions. This protein binds ubiquitinated lysine 63 of histone H2A and H2AX. This protein may also function as a repressor of transcription. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015] |