

Product datasheet for **RN206414**

Uimc1 (NM_001013884) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uimc1 (NM_001013884) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Uimc1
Synonyms:	RGD1307009
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN206414 representing NM_001013884
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACGAAGAAAGAAAAAATTAAGAAGCCTCCGAAGTCTCAGAACCTCGAGAAGAAGGATCTGGAAA
 CCACCAGTTCTGTCAAGTATAAAAAAGAAGCGTCTGACTGGAGGACTTATTCATAGTGATATCTGATAGTGA
 TGGAGAGGAAACAAAAGAGGAAAATGGATTACAGAAAATGAAGACAAAACAGTCAAAACAGATCAAAGTGT
 TTGGCTAAAAGAAAAATTGCACAGATGTGAGAAGAACAATTTGCTTTGGCTCTCAAAATGAGTGAGC
 AGGAAGCTAAGGAGGTGAACAACCAGGAGGAGAAAAGAAGAGCTCTTGAGGAAAGCCATTGCTGAAAAG
 CCTGAATAGTCGCTGGTCTTCTGACGCTTCTGCTGCCAGACCCCGACCTCTGTCTACTGGCCGCTCTCA
 CATCCCCATCAAGACAGCACAAAGATTCTGGAACCACTGAAGGCATATGGCAGCTGGCACCTCCATCAC
 TGTGCAAAGGCTCACAGATCAGTCAGGGAACGAGGCTGAGGAAGGAAAGGAGCCCTGGGACCACAGTGA
 AAACCCCTGAAGAGGAGCCGCTCTCTGGCAGCTCAGGAAGCCAGGACCAGTCAAGCCGGCCAGTGTGTTGAG
 AATGAGAAGGTTAAATGTTTTGACAGATGACTGGCCACTTGGCTGAGCACACACAGTGTGGGAAGCCAC
 AGGAAAGTACTGGGAGTGGTTGTCTTTCCCAAAGCTGTTCAAGGTAGGGGGACACGCTTAGGCAATG
 CCTTCTACCCAGCAGACACCAAAGGCCTCCAGGACATTGGGGGCACAGTGCCTACTACTGGGGTGT
 CCATTCTGCCCTGCTGGAGTAGACCCTGATCAATACACCAGTGTCAATCTGTGCCAGTTGGAGGTGATC
 AGAAGAGCTTGAAAATGGCTCAGAGACAGCTTGTTAAAAAAGAGGGTTTGGGGAACCAAGTGTACCTAG
 ACCTCCTTTCTGATCCAGAATGAATGTGGCAAGAAGAGCAGACTAGTGAAAAGCATGAAGGCCTCTCA
 GAAGATGTGAGAGCTGGAGCCAGGAGGAAAGGCAGGGCTCTGGGCATCTGTCTGGCACTCAGAAAACCA
 AGGATTTCAAAAAAGTCCCATTAACAAGCTTGAAGCAGAGACTTTTGTGGAGGAAGAACCAACACCCGG
 TCGTGGTCAAGTCTCCCAAGTCTGTTTGAAGAAACTCTGAAGAAGTTCTGAAGATTCTGAAGGA
 GACGACGCTGTGCCTGCCTCACAAGCATTGCAGTTTTGACCAGTAAGAGAGATTTAGTTCTTATGCCGG
 AAGCTTCTACAGAAGAAGTCACTGTTTGTCTGAGACACAGTTAAGTTCCTTTGAGCCCTTGACCTGAA
 TGGAGAAGACTCTGTAGATGGCAGAGAGATCCCCACTGAACTAGGAATGACAGTGAGTAATAGGCAGGTT
 GATAATAGGGAAGCTGGTAAGGACAGTCGCTCCTGCAGTCTCGGCTAGTGCCAGGGTGTCTGCCAC
 TGTGTAACCAAGACTTCCCTCCCAAAAGATTGAGCAGCATGCCATGACTGCCTGATGGAGCC
 GGAACAGTATTGACTCGGAGACGAAGAGAGGCCAAGAAAAAAGTATGGTAGGACAGTGCAGCAGCT
 GCCCTGGACATCAGCAGGAAGGAGAAGTGTATCTGTGTAAGTCCCTGGTCCACTTGGGAGTATCAGT
 GTCATGTAGAGACCTGTCTCCAGCTTGCAAATGTTGACAGAGAAAATGGGACTGAAGGGATGAGGAGACC
 AAGAGTGTGTGACCTGTGGAGGGGAAACCGAAGCAGCGACTGAGGAAGTCAAAGGAAAAAGGTCATAGT
 CAAGGCCGACTTCTCAGTCTCTTGGAGCAGTCTGAGCACAGGACCACAGGTGTAGAGAGAACCCCAAGT
 GTTCCGAAGCAGGAGCCTTCCAGGATGCCCTCACCAGATGTGGAAGAGGCTGGCTGCAGCAGAGAGGGA
 GAGTTCGCTCTCAAAGCTCAACTTAAATGAGTCTCCCATCAAGTCTTTGTTCTGTTTCAGAAGCTACA
 AATTGCTTAGTGGACTTTAAAGGCCAATTTGCTTTCCGGTCACAAACCAATCAGGCAGAGGAAGGAGGA
 GAAAAATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013884

Insert Size: 2181 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001013884.1</u> , <u>NP_001013906.1</u>
RefSeq Size:	2518 bp
RefSeq ORF:	2181 bp
Locus ID:	290997
UniProt ID:	<u>Q5PQK4</u>
Cytogenetics:	17p14
Gene Summary:	Ubiquitin-binding protein. Specifically recognizes and binds 'Lys-63'-linked ubiquitin. Plays a central role in the BRCA1-A complex by specifically binding 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. Also weakly binds monoubiquitin but with much less affinity than 'Lys-63'-linked ubiquitin. May interact with monoubiquitinated histones H2A and H2B; the relevance of such results is however unclear in vivo. Does not bind Lys-48'-linked ubiquitin. May indirectly act as a transcriptional repressor by inhibiting the interaction of NR6A1 with the corepressor NCOR1.[UniProtKB/Swiss-Prot Function]