

## Product datasheet for **RG202823**

### RAP80 (UIMC1) (NM\_016290) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAP80 (UIMC1) (NM_016290) 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)
ORF Nucleotide Sequence:	>RG202823 representing NM_016290 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCCACGGAGAAAGAAAAAGTTAAAGAAGTCTCCGAATCTCGGAACCTGGAGAAGAAGGATGTGGAACTACCAGTTCTGTCAGTGTGAAGAGGAAGCGTAGACTTGAGGATGCATTATTGTGATATCCGATAGTGA TGGAGAGGAACCAAGGAGGAAAATGGTTGCAGAAAACGAAGACAAAACAGTCGAATAGAGCAAAGTGT TGGCCAAAAGAAAAATCGCACAGATGACAGAAGAAGAACAGTTTGTCTGGCTCTCAAATGAGTGAGC AGGAAGCTAGGGAGGTGAACAGCCAGGAGGAGGAAGAAGAGGAGCTTTGAGGAAAGCCATTGCTGAAAG CCTGAATAGTTGCCGGCCTTCTGATGCTCCGCTACCAGATCTCGACCTCTGGCCACTGGACCGTCTCC CAGTCCCATCAAGAGAAAACCACAGACTCTGGGCTCACTGAAGGCATATGGCAGCTGGTACCTCCATCAC TGTTTAAAGGCTCACATATCAGTCAGGGAACGAGGCTGAGGAAAGAGAGGAGCCTTGGGACCACACTAA AAAAAGTGAAGAGGAGCCGGTCTCTGGCAGCTCAGGAAGCTGGGACCAGTCAAGCCAGCCAGTGTGAG AATGTGAACGTTAAATCTTTGACAGATGTAAGGCTGAGCAGCAGTGTGGGAGCCAC AGGAAAGTACTGGGAGGGTTCTGCTTTCTCAAAGCTGTCCAGGAGTACGGGGACACATCTAGGCAGTGT TCTACCTACCTAGCAGATGCCAAAGTCTCCAGGACACTGGGGCACTGTGAATATTTCTGGGGTATT CCATTCTGCCCTGATGGAGTAGCCCTAACCAAGTATACCAAGTCACTTCTGGCAGTTGGAGGTTATC AAAAGAGCCTGAAAATGGCTCAGAGGCAGCTCCTTAATAAAAAAGGTTTTGGGGAACCAAGTGTACCTAG ACCTCCTTCTGATCCAGAATGAATGTGGCCAAGGAGAGCAGGCTAGTGAAGAAAATGAATGCATCTCA GAAGATATGGGAGATGAAGACAAAAGAGGAGAGGAGGAGTCTAGGGCATCTGACTGGCACTAAAAACCA AGGATTTCCAGGAAAGCTCAATTAAGCTTGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202823 representing NM\_016290  
 Red=Cloning site Green=Tags(s)

MPRRKKKVKVESESRNLEKKDVETTSSVSVKRKRRLLEDAFIVISDSDGEEPKEENGLQKTKTKQSNRAKC  
 LAKRKIAQMTEEEQFALALKMSEQEAREVNSQEEEEELLRKAIAESLNSCRPSDASATRSRPLATGPSS  
 QSHQEKTTDSGLTEGIWQLVPPSLFKGSHISQGNEAEEREPEWDHTKKTEEPVSGSSGSDWQSSQPVFE  
 NVNVKSFDRCTGHSAEHTQCGKPKQESTGRGSAFLKAVQGSQDTSRHCLPTLADAKGLQDTGGTVNYFWGI  
 PFCPDGVDPNQYTKVILCQLEVYQKSLKMAQRQLLNKKGFGEVLPVLRPPSLIQNECGQGEQASEKNECIS  
 EDMGDEDKEERQESRASDWHSKTKDFQESSIKSLK

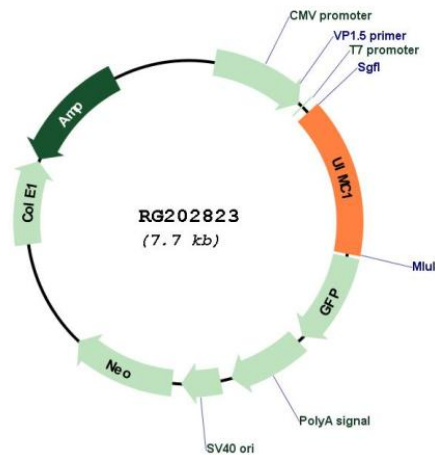
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_016290

<b>ORF Size:</b>	2157 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016290.3</a> , <a href="#">NP_057374.3</a>
<b>RefSeq Size:</b>	2656 bp
<b>RefSeq ORF:</b>	2160 bp
<b>Locus ID:</b>	51720
<b>UniProt ID:</b>	<a href="#">Q96RL1</a>
<b>Cytogenetics:</b>	5q35.2
<b>Domains:</b>	UIM
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]