

Product datasheet for **RG201875**

KIAA0020 (PUM3) (NM_014878) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KIAA0020
Synonyms:	HA-8; HLA-HA8; KIAA0020; PEN; PUF-A; PUF6; XTP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG201875 representing NM_014878
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAGTTAAAGGAAAAAGCAATTCACAGGAAAGAATACAAAGACAGCACAAAGAAAAACAGATTT
 ATAAAAATAGTGATTCTGGTTCTTCAAAGACATTTCCAACAAGGAAAGTTGCTAAAGAAGGTGGACCTAA
 AGTCACATCTAGGAACCTTTGAGAAAAGTATCACAAAACCTTGGGAAAAAGGGTGTAAAGCAGTTCAAGAAT
 AAGCAGCAAGGGGACAAATCACCAAGAACAATTCAGCCGGCAAATAAATCAACAAGAAGAGAAAAAT
 TCCAGCCAGATGGTAGAAGCGATGAATCAGCAGCCAAGAAGCCCAATGGGATGACTTCAAAAAGAAGAA
 GAAAGAACTGAAGCAAAAGCAGACAACTCAGTGATAAAACCAACTATGACATTGTTGTTGCGGCAAAAGCAG
 ATGTGGGAGATTTTAAAGAAGAAAAGACTGTGACAAAGAAAAAGAGTAAAGTTAATGAGTGATTTGCAGA
 AGTTGATTCAAGGAAAAATTTAACTATTGCATTTGCACACGATTCAACTCGTGTGATCCAGTGTTACAT
 TCAGTATGGTAATGAAGAACAGAGAAAACAGGCTTTTGAAGAATTGCGAGATGATTTGGTTGAGTTAAGT
 AAAGCCAAATATTGAGAAAATATTGTTAAGAAAATTTTCATGTATGGAAGTAAACCACAGATTGCAGAGA
 TAATCAGAAGTTTTAAAGGCCACGTGAGGAAGATGCTGCGGCATGCGGAAGCATCAGCCATCGTGGAGTA
 CGCATACAATGACAAAGCCATTTTGGAGCAGAGGAACATGCTGACGGAAGAGCTCTATGGGAACACATTT
 CAGCTTTACAAGTCAGCAGATCACCAACTCTGGACAAAGTGTAGAGTTACAGCCAGAAAAATTAGAAC
 TTATTATGGATGAAATGAAACAGATTCTAACTCCAATGGCCAAAAGGAAGCTGTGATTAAGCACCTATT
 GGTGCATAAAGTATTCTTGACTTTTTTACCTATGCACCCCCCAAACCTCAGATCAGAAATGATTGAAGCC
 ATCCGCGAAGCGGTGCTACCTGGCACACACACAGATGGCGCCAGAGTGGCCATGCACTGCCTGTGGC
 ATGGCACGCCCAAGGACAGGAAAGTATTGTGAAAACAATGAAGACTTATGTTGAAAAGGTGGCTAATGG
 CCAATACTCCCATTTGGTTTTACTGGCGCATTTGATTGTATTGATGATACTAAGCTTGTGAAGCAGATA
 ATCATATCAGAAATTATCAGTTCATTGCCTAGCATAGTAAATGACAAATATGGAAGGAAGGTCTATTGT
 ACTTACTAAGCCCCAGAGATCCTGCACATACAGTACGAGAAATCATTGAAGTTCTGCAAAAAGGAGATGG
 AAATGCACACAGTAAGAAAGATACAGAGGTCCGACAGCGGAGCTCCTAGAATCCATTTCTCCAGCTTTG
 TTAAGCTACCTGCAAGAACACGCCCAAGAAAGTGGTGCTAGATAAAGTCTGCGTGTGTGTTGGTGTCTGACA
 TTCTGGGATCTGCCACTGGAGACGTTTACGCTACCATGAATGCCATCGCCAGCTTGGCAGCAACAGGACT
 GCATCTGGTGGCAAGGACGGAGAGCTTCACATTGCAGAACATCCTGCAGGACATCTAGTTCTGAAGTGG
 TTAATAGAGCAAGATAAAAAGATGAAAGAAAATGGGAGAGAAGGTTGTTTGCAAAAACACTTGTAGAGC
 ATGTTGGTATGAAGAACCTGAAGTCTGGGCTAGTGTAAATCGAGGTGCCATTATTCTTTCTAGCCTCCT
 CCAGAGTTGTGACCTGGAAGTTGAAACAAAGTCAAAGCTGCACTGAAAAGCTTGATTCTCATATTGGAA
 AAAACCAAAAGCACCAGCAAAGGAATAGAAATTCTACTTGAAAACTGAGCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201875 representing NM_014878
 Red=Cloning site Green=Tags(s)

MEVKGKKQFTGKNTKTAQEKNRHFNKNSDSGSSKTFPTRKVAKEGGPKVTSRNFEKSITKLGGKGVKQFKN
 KQQGDKSPKNKFQANKFNKKRKFQPDGRSDESAKKPKWDDFKKKKKELKQSRQLSDKTNYDIVVRAKQ
 MWEILRRKDCDEKRVKLMSDLQKLIQGIKTI AF AHDSTRVIQCYIQYGNEEQRKQAFEELRDDLVELS
 KAKYSRNIVKKFLMYGSKPQIAEII RSFKGHVRKMLRHAEASAIVEYAYNDKAILEQRNMLTEELYGNTF
 QLYKSADHPTLDKVLLEQPEKLELIMDEMKQILTPMAQKEAVIKHSLVHKVFLDFFTYAPPKLRSEMIEA
 IREAVVYLAHTHDGARVAMHCLWHGTPKDRKVIKTMKTYVEKVANGQYSHLVLLAADCIDDTKLKVQI
 IISEIISLPSIVNDKYGRKVLVLLSPRDPHTVREII EVLQKGDGNAHSKDKTEVRRRELLESISPAL
 LSYLQEHAEVVLDKSACVLYSDILGSATGDVQPTMNAIASLAATGLHPGGKDGELHIAEHPAGHLVLKW
 LIEQDKMKENGREGCFAKTLVEHVGMMNLKSWASVNRGAILSSLLQSCDLEVANKYKAALKSLIPTLE
 KTKSTSGKIEILLEKLST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014878

ORF Size: 1944 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.

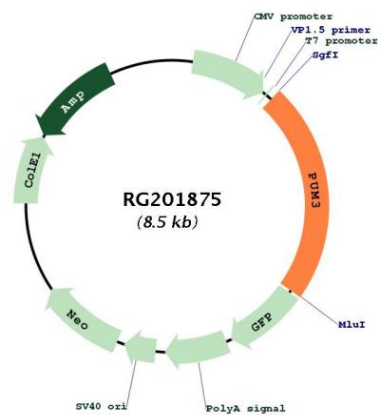
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014878.4](#), [NP_055693.4](#)

RefSeq Size: 2232 bp
RefSeq ORF: 1947 bp
Locus ID: 9933
UniProt ID: [Q15397](#)
Cytogenetics: 9p24.2
Domains: PUF

Gene Summary: Inhibits the poly(ADP-ribosyl)ation activity of PARP1 and the degradation of PARP1 by CASP3 following genotoxic stress (PubMed:21266351). Binds to double-stranded RNA or DNA without sequence specificity (PubMed:25512524). Involved in development of the eye and of primordial germ cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201875