

Product datasheet for **RC201247**

GPKOW (NM_015698) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPKOW (NM_015698) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPKOW
Synonyms:	GPATC5; GPATCH5; Mos2; Spp2; T54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201247 representing NM_015698
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTGACTCCAAAGAGGGTGTGTTTCCGCTGACGGCTGCTTCCACTGCCCCAATTTTCATTCGGCTTCA
 CTCGCACGTCCGCACGGAGGCGGCTGGCCGACTCGGGAGACGGCGCGGGCCATCTCCGAGGAGAAGGA
 TTTCTTGA AAAACCGTGAAGGGAGGGAGCTGCAGAGTGTGAAGCCCCAGGAGGCCCAAGGAACCTCGTC
 ATCCCTTTGATCCAGAATGGCCATCGCAGGCAGCCACCAGCCCGCCCTGGGCCATCCACAGATACTG
 GGGCCTTGGCGGATGGGGTGGTGTCCAGGCTGTGAAGGAGCTCATTGCGGAATCCAAGAAGTCTCTGGA
 AGAGAGAGAGAATGCGGGTGTGACCCACGCTCGCTATCCCATGATCCAGAAAGGATGCACCCACGC
 GGGGAAGGGGAGACAGCGAACCCCGGCAGAGACAGTCCAGAGGAGGTAATTATGAGGCGGTCCCCG
 TGGAGGCCATGAGGCTGGCCATGCTGCGGGCATGGGCTGGAAACCTGGCGAGGGCATCGGCCGCACCTT
 CAATCAAGTAGTGAAGCCCGTGTCACTCACTGAGGCCCAAGGGTTAGGGCTGGGTGCCAACCTGACC
 GAGGCCACGGCCTTGACCCCACTGGCCCTCCCGCATGCCAAGACCAGATGAGGAGCAAGAGAAAGATA
 AGGAAGATCAGCCTCAAGGGCTGGTGCCTGGAGGAGCTGTGGTGGTCTTTCTGGCCCTACCGAGGCCCT
 CTATGGGAAGGTGGAAGGCCCTTGATCCTGACAATGTTCCGGCCATGGTTCGTCTGGCTGTGGGGAGCCGG
 GTGGTGACTGTTAGTGAGTACTACCTGCGGCCTGTCTCCAGCAGGAGTTTGACAAGAACACCTTGATC
 TCAGGCAACAGAACGGAACCTGCCTATCACGGAAGACCTCTGGAATCAAGAACTCTACATCCAGCAGGA
 CAATCAGAGAGGAAGCGGAACACCTTCCAGACCGACAGGATGGGCCTGCAGCAAGAGTGAGAAAGCA
 GCGCCCAAGATCAGCACTGGTTGCACAGGACCTGCGTGTGCGGTTTGTGGACAACATGTACAAAGGAG
 GCAATATTACAACACCAAGATGATAATTGAAGATGTCCTAAGCCAGATACCTGTGTATGTCGGACAGA
 TGAAGGCCGAGTCTGGAAGGCCCTGAGGGAAGACATGCTGGAGACCCTGGTTCCCAAGGACAGAGGTGAC
 CGTGTGATGGTGGTGTGGGCCACAGACTGGAAGGGTGGGACATTTGCTGAGCCGGGACAGAGCACGGA
 GCGGGGCTTTGGTGCACTGCCAAGAGAAAATCAGGTGGTGGAGCTTCACTACGATGCCATCTGCCAGTA
 CATGGGCCCTAGTGACACAGATGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201247 representing NM_015698
 Red=Cloning site Green=Tags(s)

MADSKGVLP LTAASTAPISFGFTRTSARRRLADSGDGAGPSPEEKDFLKTVEGRELQSVKPQEAPKELV
 IPLIQNGHRRQPPARPPGPSTDTGALADGVVSQAVKELIAESKKSLEERENAGVDPTLAIPMIQKGCTPS
 GEGADSEPRAE TVPEEANYEAVPVEAYGLAMLRGMGWKPGEIGRTFNQVVKPRVNSLRPKGLGLGANLT
 EAQALTPGSRMPRPDEEQEKDKEDQPQGLVPGGAVVVLSGPHRGLYGKVEGLDPDNVRAMVRLAVGSR
 VVTVSEYYLRPVSQQEFDKNTLDLRQQNGTASSRKTWNQELYIQQDNSEKRRKHLPRQDGPAAKSEKA
 APRSQHWLHRDLRVRFVDNMYKGGQYYNTKMIIEDVLSPTDVCVCRDDEGRVLEGLREDMLETLVPKAEGL
 RVMVVLGPQTGRVGHLLSRDRARSRALVQLPRENQVVELHYDAICQYMGPSDTHDD

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8112_b12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_015698

ORF Size: 1428 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_015698.6](#)

RefSeq Size: 2975 bp

RefSeq ORF: 1431 bp

Locus ID: 27238

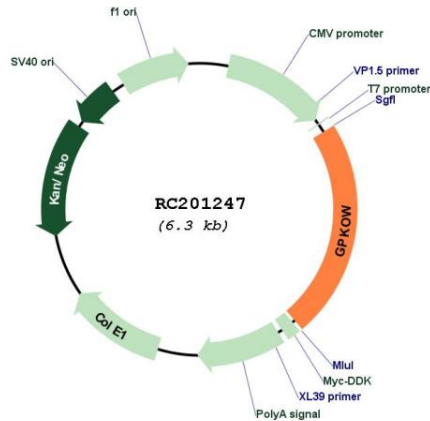
UniProt ID: Q92917

Cytogenetics: Xp11.23

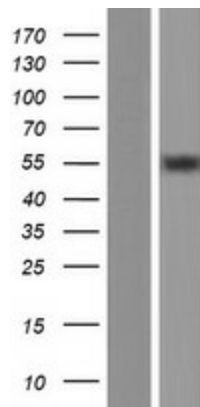
MW: 52.2 kDa

Gene Summary: This gene encodes a putative RNA-binding protein containing G-patch and KOW (Kyprides, Ouzounis, Woese) domains. The encoded protein interacts directly with protein kinase A and protein kinase X and is also found associated with the spliceosome. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC201247



Western blot validation of overexpression lysate (Cat# [LY414392]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201247 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).