

Product datasheet for **RC211098**

PWWP3A (NM_032853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PWWP3A (NM_032853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PWWP3A
Synonyms:	EXPAND1; HSPC211; MUM-1; MUM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC211098 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

 ATGATGGCGGATGCCAAGTATGTCTCTGCCGATGGGAAAAGCGATTATGGCCTGCGAAGGTTTTGGCCC
GAACCGCGACTTCAACAAAAAATAAGAGAAGAAAGGAATATTTCTAGCTGTGCAATCCTCTCCCTAGA
GGAAAAAATTAAGGTGAAAAGCACTGAAGTTGAGATCCTAGAGAAGTCTCAAATTGAAGCCATTGCTTCC
TCGTTAGCCTCACAGAATGAGGTTCTGCGGCACCCCTGGAAGAACTGGCCTACAGACGGTCGCTTCGCG
TGGCTCTGGACGTTCTGAGCGAGGGCTCGATTTGGAGTCAAGAAAGCTCTGCAGGACAGGTAGAGCTGA
CCGGTCTCTGCGAGGGAAGCCCATGGAGCATGTCTCTCGCCCTGTGATTGCAACTCCTCATCTCTTCCC
CGCGGAGACGTGTTGGGAGTTCAGACCTCACAGGAGGAGGCCATGTGTGCAACAAAGCCTGTCAAGTT
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CGCGCCTGGATGGCAGCCAAAGGCCGCTGCGGTGCAGCTGGAGCCCATGGCAGCAGGGGCCGACCATC
CCCCGGGCGGGGCCAGGGCCAGAGAGTCTGTGACCCGCGCAGCACCGCCAGGCTGGGCCGCTCTCC
TCCCACGCCTCTGCGGATGCAACCAGATGTCTTCTTGCCCGATTCCCAGAAGCTGGAGAAAGAGTGCC
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GGTTCAATTCTGGACGTGCTTCTGCCCAGGGCCATCATCTGTGCGATCTCTGCGGTGGACGAGGTGGACTA
CAAGACGGCTGAGGAGAAGTACATCAAGGGGCCTTCGCTGAGCTACCGGGAAAAAGAAATATTTGACAAC
CAGCTCCTTGAAGAGCGGAACCGCGCCGTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211098 protein sequence
 Red=Cloning site Green=Tags(s)

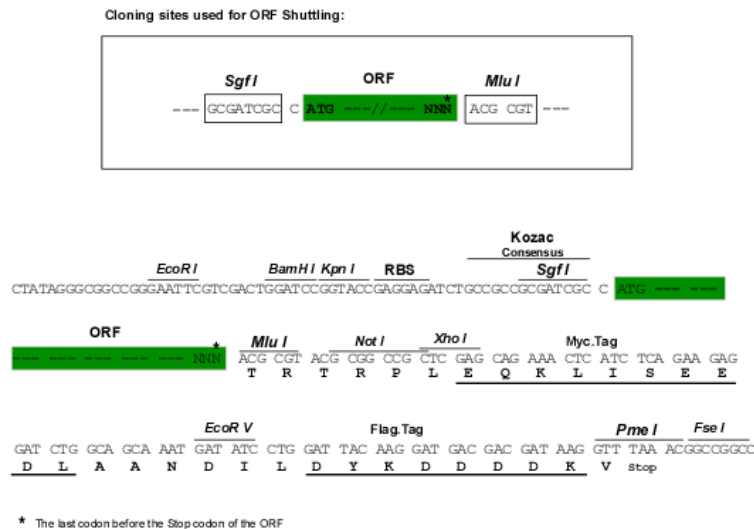
MMADAKYVLCRWEKRLWPAKVLARTATSTKNKRRKEYFLAVQILSLEEKIKVKSTEVEILEKSQIEAIAS
 SLASQNEVPAAPLEELAYRRSLRVALDVLSEGSISWQESSAGTGRADRSRKGKPMHVSSPCDSNSSLP
 RGDVLGSSRPHRRPCVQQSLSSSFTCEKDPECKVDHKKGLRKSENPRGPLVLPAGGGAQDESGSRIHHK
 NWTLASKRGRNSAQKASCLNGSSLSEDDTERDMGSKGGSWAAPSLPSGVREDDPCANAEGHDPGLPLGS
 LTAPPAPEPSACSEPGCEPAKKRPRLDGSRPPAVQLEPMAAGAAPSPGPGPGPRESVTPRSTARLGPPP
 SHASADATRCLPCPDSQKLEKECQSSEESMGSNMRSILEEDEEDEEPPRVLLYHEPRSFVGMVLVWHKH
 KKYPFWPAVVKSVRQDKKASVLYIEGHMNPMMKGFVSLKSLKHFDCKEKQTLLNQAREDFNQDIGWCV
 SLITDYRVRLGCGSFAGSFLEYAADISYPVRKSIQQDVLGTLKPLQSKGSPEEPVVGCPQGQRQPCRKM
 LPDRSRAARDNANQKLVEYIVKAKGAESHLRAILKSRKPSRWLQTLSSQYVTCVETYLEDEGQLDLVV
 KYLQGVYQEVGAKVLQRTNGDRIRFILDVLLPEAIIICISAVDEVYKTAEEKYIKGPSLSYREKEIFDN
 QLLLEERNRRRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6744_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_032853

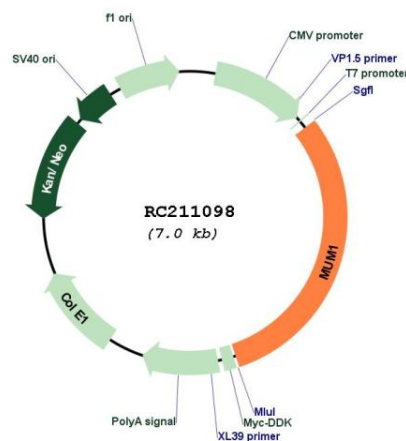
ORF Size: 2133 bp

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](#)

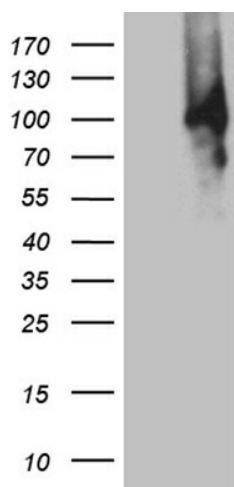
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_032853.5</u>
RefSeq Size:	4119 bp
RefSeq ORF:	2133 bp
Locus ID:	84939
UniProt ID:	<u>Q2TAK8</u>
Cytogenetics:	19p13.3
MW:	78.9 kDa
Gene Summary:	Involved in the DNA damage response pathway by contributing to the maintenance of chromatin architecture. Recruited to the vicinity of DNA breaks by TP53BP1 and plays an accessory role to facilitate damage-induced chromatin changes and promoting chromatin relaxation. Required for efficient DNA repair and cell survival following DNA damage. [UniProtKB/Swiss-Prot Function]

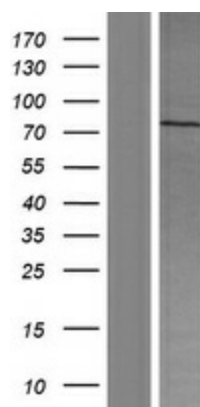
Product images:



Circular map for RC211098



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MUM1 (Cat# RC211098, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MUM1 (Cat# [TA804513]). Positive lysates [LY409887] (100ug) and [LC409887] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409887]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211098 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).