

Product datasheet for **RR217115**

Cwh43 (NM_001191677) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cwh43 (NM_001191677) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cwh43
Synonyms:	RGD1310958
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR217115 representing NM_001191677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCAAGCCTGTGGAGAGCAATTGCCCTGGAGACCTTGCTGGGTACATCTCCTGGTCTCTCTACCAG
 GACTGGGCCCCATGATCTATTACTTTCCCTGCAGACACTGGAGCTCACAGGGCTGGAAGTGTGGCGT
 AGCCTTTCTCTCTCCGATACTCCTTACAATCCCCCATTCTGAAACTCGTCAAGAAAAAGCGGCACTC
 ACTTTGCTGAGGATCATTACTGTAGGCAGCGTAGCCTCCTTTGAGGCTCCGAATGCCAACTTCGACTGA
 TAGTCCTTGCCCTTGGTGTGTCTTCTCCCTGATCGTGCAGACTGTGACCTGGTGGTCAGGAAGTGGACT
 GCAAAGGTACCTCAAAATCTGGGATTCACTTCTGGGACACATTCTTCTTCTGCTCCGAATATGGTAC
 ACATCGTTAAACCAATTTGGAGCTATCAGATGTCCAACAGAGTCATTCTGCTACTGAGTGCCATAGCTG
 GTTCGACCGAATTAGCACAGATGGTGACTACAGAAACCCTGAGGGGAAGAAACCGGATGAGGCCGCCAC
 GCGCAGGACCTCTCTATCCAGTTGGCTGTTGCCAGGTGCCGCTTCGGGAGCCTCGTGTTCTCACGCAC
 TGGATCTTTGGAGAGGTCTCCATTGTTTCCAGATGGGCAGTGAGCGGTATCCCCACCCAGGGCCTGATC
 CGAATCCTTTTGGAGGTGCGGTTCTGCTGGGCTTCGCAAGTGGACTGATGCTATCGGGCTCATATGGCT
 TTGTGACACTGGGTAGCCTGGTGGATGACAGGAGCAACTTCAGCCATGGGTCTCCTTTATCTGCGCACT
 TGGGCAGCCGCTGTTTCTGGATGCGCACTGGCAGTCTTCACAGGGTCCATGTGGCCTCAAGTACTTGGAC
 ATCTTATGAACTCAGGGACAAACCCTGGAGGAGCCATGACCACTGGCATGAGCCTTTATGTTCTACAAGT
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 GTGCTTTTGGGATCATAATGGTAATTATTGGATTGAGCATGCTGTTTAGACCTAAGAAAAACCTTGACT
 TTCTTCTCAACAAAAAACAGCTCTAAATGCTTTTAAAGCACTGAAAAATACATGAACTTATTTT
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 GGTCCAATCTAGAGCGGTCTGCTCAGCTGCTCAAGCAGACGGGTGCAGATTTTATTACCATTTTGGAGAG
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 ACAGACTTTGGGCAAGCACCAGGGATCACACATGGGGGATTATGGTCTGTCTCGGTACCCGATTGTGA
 GATCGGAACATCACCTTCTTCCGTCACCAGAGGGCGAGATCGCACCAGCCATAACCATGACAGTTAACAT
 CTCCGACAGACTGGTGGATTTTGTGGTGACACACTTCGGGAATCATGAAGATGACCTTGACAGGAAGCTA
 CAGGCTATTGCAGTTTCAAACTGCTGAAAAATTGTTCAAATCAAGTGATATTTTGGGCTACATCACTT
 CAGAGCCTGGTTCCAGAGACTACACAACTCACAAAACATGGCCATGTGAAGGATATTGACAGCTCAGA
 TCGAGACAGATGGTGTGAATATATCATGTATCGGGCCTGATCAGGTTGGGTTATGCAAGGATTTTCAT
 GCTGAACTGAGTGACTCTGAGATTCAGATGGCCAAATTCAGGATTCAGATGATCCCTTCAATTACAGAG
 ACAACCAGAGAGTCGTATAGACCACAGAGGAGTCCCAAGAACATTCATTTCAACCCGAGATTTGGCTC
 CTACAAAGAAGGACACAATCACGAGAACAACCATCATTTTCACATGAATACACCAAGTACTTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217115 representing NM_001191677

Red=Cloning site Green=Tags(s)

MPSLWRAIALETLLGYISWSLYHGLGPMIYYFPLQTLLELTGLEVFVGAFLSPILLTIPPFWKLVKKKRAL
 TLLRIITVGSVASFEAPNAKLRLIVLALGVSSSLIVQTVTWWSGSLQRYLKIWGFILGHILLVLRIWY
 TSLNPIWSYQMSNRVILSLSAIAVFDRISTDGDYRNPPEGKPKDEAATRRTSLSSWLLPGAAGSLVFLTH
 WIFGEVSIWSRAVSGPHPGDPNPFGGAVLLGFASGLMLSGSSWLCDTGLAWWMTGATSAMGLLYLRT
 WAAAVSGCALAVFTGSMWPQVLGHLMSGTNPGGAMTTGMSLYVLQVFFCAWCTAFKFVPGGVYARERSD
 VLLGIIMVIIGLSMLFRPKKNLDFLLQTKNSSKMLLRSTEKYMKILLWLLVGVGLLGLGLRHRTYERKLG
 HGAPADVVSAAIWPFRRGYDNEGWSNLERSAQLLKQTGADFITILESDASKPYMGNNDLTMWLGEKLGFY
 TDFGPSTRDHTWGIMVLSRYPIVRSEHLLPSPEGEIAPAITMTVNI SDRLVDFVVT HFGNHEDDLDRKL
 QAIASKLLKNCSNQVIFLGYITSEPGSRDYTLTKHGHVKDIDSSDRDRWCEYIMYRGLIRLGYARISH
 AELSDSEIQMAKFRIPDPFNYRDNORVVIDHRGVPKNIHFNPFRGSGYKEGHNHNNHHFHMNTPKYFV

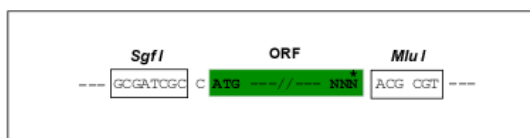
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozac
 Consensus
EcoRI *BamHI* *KpnI* *RBS* *SgfI*

CTATAGGCGCGCCGGGAATCTGTCGACTGGATCCGGTACCGAGGAGATCTGCGCCGCGGATCGC C

ORF

MluI *NotI* *XhoI* *Myc.Tag*

ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG
 T R T R P L E Q K L I S E E

EcoRV *Flag.Tag* *PmeI* *FseI*

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC
 D L A A N D I L D Y K K D D D D K V Stop

* The last codon before the Stop codon of the ORF

ACCN: NM 001191677

ORF Size: 2097 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.

RefSeq: NM_001191677.1, NP_001178606.1

RefSeq Size: 2462 bp

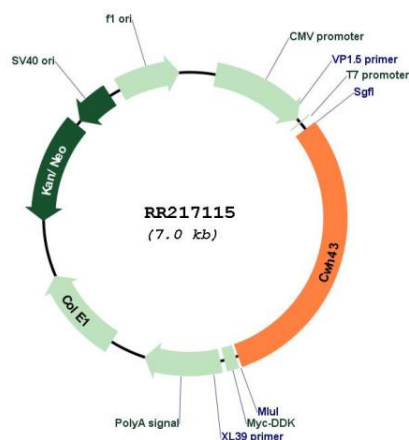
RefSeq ORF: 2100 bp

Locus ID: 305307

Cytogenetics: 14p11

MW: 78.4 kDa

Product images:



Circular map for RR217115