

Product datasheet for MR211823

Wdr11 (NM_172255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr11 (NM_172255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr11
Synonyms:	2900055P10Rik; AW489876; Brwd2; mKIAA1351
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211823 representing NM_172255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTACCTACACCGTAACTTCAAGGTGTCAGCGCGCACCTCACCGGGCTCTCAACGCGCACAAACA
AGGCGCGGTGGACTGGGCTGGCAAGTTAATTGCATATGGATGCCATTCAGTGGTGGTAGTGATCGA
TTCCAATACTGCCAACTCTACAAGTTCTAGAAAAACATAAAGCTGATATTGTTAAGGTCAGTGGGCC
AGGGAAGACTATACCATAACATCGGCTCTCCATACTGCCTGCGCTTGGCTTCTGCGGATGTCAGTGGGA
AGATCATTGTCTGGGATGTAGCAGCCGGAGTAGCCAGTGTGAGATCCAAGAGCACGTGAAGCCCATCCA
AGATGTGCAGTGGCTGTGGAATCAGGACGCTTCCCGAGACTTGTGCTCGCTATCCACCCGCTAATTAC
ATCGTGTGTGGAATGCAGACACAGGCACCAAGCTGTGGAAGAAGAGCTACGCAGATAACATCCTTTCTT
TTTCTTTTGACCTTTTGATCCTTACATTTAACTTTACTCACCAGCGAGGGCATCGTTTTTCATCTCAGA
CTTCTCTCCATCCAAGCCTCCCTCCGGCCCTGGGAAGAAAGTGTACATCTCCAGCCACACTCCAGCCCA
GCTCATAACAAGCTGGCCGACGCCAGGGAGCCAAAGAAGGCTCTTAATAAAGTAAAGATTTAATCACTC
AGGAGAAACCGAGTGTGATTTTGTAGCTCTCAATGACTGCCTCCAGTTAGCCTATCTGCCTTAAAAAG
GAATCACATGCTGTTGCTCTACCCTCGGGAGATTTAATCCTTGACCTGGAAGTGAATCAAACAGTTGGT
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TTTGCCTACATGAAAATGGCTGCATAACCTTACGTGTCCGGAGGCTTATAACAGCATCTGTACTACATC
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CCATTCTGCAGGAAGTGCACCTCAAGTTCTGTGACGGGACTGCTCTCAGGACTCCCTTCCCTCAGTT
TGCCATCCGAATGTGCCACCACTGACCACAAAAACATTAAGATGTACCAGCCACTCTTGTGTTGGT



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ACGAGTAACGGTTCTGTCTGGTGTACCACCTACCAGTGGCCTGCTGCACAAGGAGCTCAGTGTCCACT
CGTGTGAAGTCAAGGATTGAATGGACAAGCTTGACCAGTTTCCTTTCTTTTGCTGCTTCGACCCAAA
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AACCAGAAGTCCAAGGCCCTCCTGGTCTCCTCTCTGCGTTGCTTTGTGAGCGTGGCAGAGACGCTTC
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GGTCCACCAAGGAAGAGCTAACGGAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211823 representing NM_172255
 Red=Cloning site Green=Tags(s)

MLPYTVNFKVSARTLTGALNAHNKAAVDWGQGLIAYGCHSLVVVIDSNTAQTQVLEKHKADIVKVRWA
 RENYHHNIGSPYCLRLASADVTGKIIVWDVAAGVAQCEIQEHVKPIQDVQWLWNQDASRDLLAIHPPNY
 IVLWNADTGTKLWKSYADNLSFSFDPFDPHLLTLLTSEGIVFISDFSPSKPPSPGPKKVVYISSPHSSP
 AHNKLAATGAKKALNKVKILITQEKPSADFDVALNDCLQLAYLPSKRNMLLLYPREILILDLEVNQTVG
 VIAIERTGVPFLQVIPCQRDGLFCLHENGCI TLRVRRSYNSICTTSNDEPDLDPVQELTYDLRSQCDAI
 RVTKTVPFPMVCCPVNENAAALIVSDGRVMIWELKSAVCSRNRNNSGVSPLYPVSVFCGIPGGVLQNK
 LPDLSLDNMIGQSAIAGEEHPKGSILQEVLKFLLTGLLSGLPSPQFAIRMCPPLTTKNIKMYQPLLAVG
 TSNGLVLYHLTSGLLHKL SVHSCEVKGIEWTSLTSFLSFAASTPNNMGLVRNELQLVDLPTGRSTAFR
 GDRGNDESPIEMIKVSHLKQYLAVVFKDKPLELWDIRTCTLLREMSKSFPAITALEWSPSHNLKSLRKKQ
 LATREMARQTVVSDAELGAVESSVISLLQEAESKAELSQNISAREHFVFTDNDGQVYHLLTVEGNSVKDS
 ARIPPDGSMGSITCIAWKGDTLVLGDMGDLNFWDLKARVSRGIPTHRSWVRKIRFAPGKGNQKLIAMYN
 DGAEVWDTKEVQMVSSLRGRNVTFRILDVDWCTSDKVILASDDGCIRVLEMSKSTCFRMDEQELVEPV
 WCPYLLVPRAALAKAFLLHQPWNGRYSLDISHIDYPENEEIKTLLQEQLHALSNDIKKLLLDPDFSLLQ
 RCLLVSRLYGDESELHFVTVAAYHLHLSQAKSGDVTVTKEGAPKDRLSNPLDICYDVLCENTYFQKFL
 ERVNLQEYKRSTYDHTKCTDQLLLGQTDRAVQLLLET SADNQHYCDLSKACLVTVTSSGSPQSTIK
 LVATNMIANGKLAEGVQLLCLIDKAADACRYLQTYGEWNRAAWLAKVRLNSEECADVLKRWDHLCSPQV
 NQKSKALLVLLSLGCFVSAETLHSMRYFDRAALFVEACLKYGAFEVSEDETEKLI AAIYADYARSLKSLG
 FRQGAVRFASKAGAARDLLNELGSTKEELTES

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Chromatograms: https://cdn.origene.com/chromatograms/mm9040_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

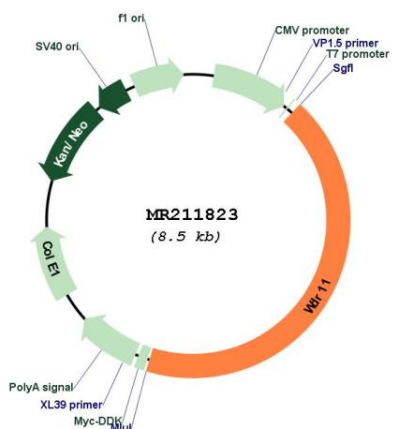


ACCN: NM_172255

ORF Size: 3669 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:	<ol style="list-style-type: none"> 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_172255.3 , NP_758459.2
RefSeq Size:	4566 bp
RefSeq ORF:	3672 bp
Locus ID:	207425
UniProt ID:	Q8K1X1
Cytogenetics:	7 F3
MW:	136 kDa
Gene Summary:	Involved in the Hedgehog (Hh) signaling pathway, is essential for normal ciliogenesis (PubMed:29263200). Regulates the proteolytic processing of GLI3 and cooperates with the transcription factor EMX1 in the induction of downstream Hh pathway gene expression and gonadotropin-releasing hormone production (PubMed:29263200). WDR11 complex facilitates the tethering of Adaptor protein-1 complex (AP-1)-derived vesicles. WDR11 complex acts together with TBC1D23 to facilitate the golgin-mediated capture of vesicles generated using AP-1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211823