

Product datasheet for **RG214603**

WDR62 (NM_001083961) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	WDR62
Synonyms:	C19orf14; MCPH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214603 representing NM_001083961
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCGTAGGGTCCGGAGGCTATGCGCGGAACGATGCAGGGGAGAAGCTGCCCTCTGTTCATGGCGG
GAGTTCGGCGCGGAGGGGCCAGTCTCCCCGCCGCCGCCACCAATCTGCCTACGGCGCGGACGCG
ACTCTCGACGGCTCCGAGGAGACGGTGCAGAACCGGGTGTCACTCGAGAAGGTGCTTGGCATCACAGCC
CAGAACAGCAGTGGCCTAACCTGTGACCCCGGCACAGGCCATGTGGCCTACCTGGCAGGCTGTGTGGTGG
TGATTTTGGACCCCAAGGAGAACAAGCAGCAGCACATCTTTAACACCGCCAGGAAGTCTCTCAGTGTCT
GGCCTTCTCCCTGATGGGAAGTACATAGTGACAGGGGAGAATGGGCATAGGCCTGCTGTGCGCATCTGG
GATGTGGAGGAGAAGAATCAGGTGGCGGAGATGCTAGGCCACAAGTATGGTGTGGCGTGTGTGGCCTTCT
CACCCAATATGAAGCACATCGTGTCCATGGGCTACCAACATGACATGGTGTCAACGTCTGGGACTGGAA
GAAAGACATCGTAGTGGCTCCAACAAGGTATCTTGTAGAGTCATTGCCCTCTCCTTCTCAGAGGACAGC
AGCTATTTTGTCACTGTTGGGAACCGCCATGTGAGGTTCTGGTTCTTGAAGTCTCCACTGAGACAAAGG
TGACGAGCAGAGTGGCCTTGTAGGGCGCTCGGGCATCCTGGGCGAGCTGCACAACAACATCTTCTGTGG
TGTGGCCTGCGGTGCGGGCCGATGGCGGCGAGTACCTTCTGTGTCTCTACTCGGGCCTCCTCTGCCAG
TTCAATGAGAAGAGGGTCTGGAGAAGTGGATCAACCTGAAGGTCTCCCTGTCTTCTCGCCTCTGTGTCA
GCCAGGAGCTCATCTTCTGTGGCTGCACAGATGGGATAGTCCGCATCTTCCAGGCCCATAGCCTGCACTA
CCTCGCCAACCTGCCCAAGCCACACTACCTTGGGTAGACGTGGCAGGGCCTGGAGCCAGCTTCCTC
TTCCACAGGAAGGCGGAAGCAGTCTACCCAGATACAGTGGCACTGACCTTCGACCCCATCCACAGTGGC
TGTCTGCGTGTATAAGGACCACAGCATCTACATCTGGGATGTCAAGGACATCAACAGAGTGGGCAAGGT
GTGGTCAGAGCTCTTCCACAGCTCCTACGTTTGAACGTGGAGGTGTATCCTGAGTTTGAAGACCAGAGA
GCTTGTGGCCATCAGGATCCTTCTGACTTGTCTTCAGACAACACCATTCGCTTCTGGAACCTTGGACA
GCAGCCCTGATTCTCACTGGCAGAAAAACATCTTCAGCAATACCTGTGAAGGTCTGTACGTGGAGAA
TGACATCCAGCACCTGCAGGACATGTACACTTCCAGACCGGGGAGCGAGAATGGGACACCCATGGAC
GTGAAGACCGGGGTGCGGGTATGCAGGTCACTGACGGCCAGCATTGGCTTCAGGCGACCGAAGT



GAAATCTGAGGATCCACGAGCTGCACTTCATGGACGAGCTGGTCAAGGTGGAGGCCATGATGCTGAGGT
GCTGTGCCCTGGAGTACTCAAGCCAGAGACGGGGCTGACCTTGCTGGCCTCAGCCAGTCGGGACCGGCTG
ATCCATGTGCTGAACGTGGAGAAGAACTACAACCTGGAGCAGACGCTGGATGACCACTCCTCCTCATCA
CCGCCATCAAGTTCGCTGGCAACAGAGACATCCAGATGATCAGCTGTGGGGCTGACAAGAGCATCTACTT
TCGCAGTGGCCAGCAGGGTTCGGATGGACTACACTTTGTCCGTACCCACCACGTAGCAGAGAAAACCACC
TTGTATGACATGGACATTGACATCACCCAGAAGTACGTGGCCGTGGCCTGCCAGGACCGCAATGTGAGAG
TCTACAACACTGTGAACGGGAAGCAGAAGAAGTCTACAAGGGCTCCAGGGTGACGAAGGGTCTTGCT
GAAGGTCCATGTGGACCCCTCAGGCACCTTCTGGCCACCAGCTGCTCTGACAAAAGCATCTCAGTGATT
GACTTTTACTCGGGCGAGTGCATTGCCAAGATGTTTGGCCATTGAGAAATTATTACCAGCATGAAGTTCA
CCTATGACTGTATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTTTATCTGGCACCTGGGCCCGGA
GATCACCACTGCATGAAGCAGCACTTGCTGGAGATTGACCAACGGCAGCAGCAGCAGCACAAATGAC
AAGAAGCGGAGTGGCCACCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCTGAGCC
CTGGAGAGCAAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCGTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTG
CTAGGGGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGT
GGGCAGAGCGGGCCGGCCAAGAGCCCTCAAGACCATCCTGGATGCCAGGACCTGGATTGCTACTTTAC
CCCCATGAAGCCCGAGAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTG
CTGAGTGAGTCAGAGAGTCCCCAGGAAGCTGGCCGCGGGCACCCCTCCTTCTGCCCCAGCAGAAGGAAT
CATCTGAGGCCAGTGAGCTCATCTCTACTCTCTGGAGGCAGAAGTGACAGTCACAGGGACAGACAGCCA
GTATTGCAGGAAGGAGGTGGAGGCCGGGCTGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCTCC
GACAGCCCAAAGGACCAGAGCCCGCTGAGGACTCGGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCG
CAGCCATCCACTCCCCAGCTCCGCCTCTGACCCTGCCCTCGGTTTGGCACGTGCTGCCCATTTCC
AGGATGCGCAGGTCCCACAGAAGATGAGCTGTCCCTGCCGAGGGACCCAGCGTCCCAGCAGCTCCCTA
CCCCAGACTCCGGAGCAGGAGAAGTTCCTCCGCCACCACTTTGAGACACTGACTGAGTCCCCCTGCAGAG
AGCTCTTCCCCGACGTCTGGGAGACGTGGAGGCCTCTGAAGCTGAAGACCACTTCTCAACCCACGCGCT
GAGTATCTCCACGCAGTTCTCTCAAGCCTCCAGAAGGCATCCAGGTTCAACCATACCTTCCCTCCCCGG
GCAACCCAGTGCCCTTGGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCAGAGCAG
GTACTGGCTACGCCTCCCCAGACAGGACCCACGTCTCTGCTGCAGGGAAGGCTGAAGAGACCCTGGAGGC
CTGGCGCCCAACCACTCCTGCCTTACGAGCCTGGCGTCTGTGTCCCTGCTTCTCCGTGCTGCCACA
GACAGGAATCTCCAACGCCACATCTGCACCCACCCAGGCCTGGCTCAGGGTGTCCATGCCCCCTCCA
CCTGTTCTACATGGAGGCCACTGCCAGTCCCGTGCCAGGATATCACGCAGCATCTCCTCGGTGACAG
TGAGGGCCCTATCGTGGCCACACTGGCCAGCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCC
TTGGGCGCAGGAGTTCAGGCCATCACCAACGCGACAACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTG
CCCTGCGTTCTGGGGCAACACGAGGCCCGGGCCAACCTGAGACTGACCCTGTCAAGTGCTGTGATGG
GCTCTGCAGCCCCCGTGGATAACCCAGCCTGGCGTCACCGTCCCTGCAGTGAGCTTCCAGCCCCCTAGC
CCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTGCCCCAAGTCTCCAGCTCCTGAGTCCC
CTGGCCTTCTGCCACCCAGTAACCCCAAGCTTCCAGAGGCCCGGCCTGGCATCCCTGGCGGCACTGC
CTCCCTCCTGGAGCCACCTCCGGTCACTTGGTCTGTTACAGGGCAGCCCTGCCCGCTGGAGTGAGCCC
TGGGTGCCGTTGAAGCCTGCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGACAGGC
TGCAGACCACCTTCCAAGAAGCCCTCGACCTTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGAAGTCTGAGTGGTCTCCACCTTCTGTGGATCCACAGCCAGCTGGAGGCTGAATGC
CTGGTGGGGACTAGTGTGGCCCCAGCCAGGCTCTGCCAGCCAGGACCCCGTCCCCACCGACGCTGT
ACCCCTTGCCAGCCAGACCTGCAGGCCCTGCTGGAACACTACTCGAGCTGCTGGTGACGGCCGTGCG
GAGGAAGGCACGGGGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214603 representing NM_001083961

Red=Cloning site Green=Tags(s)

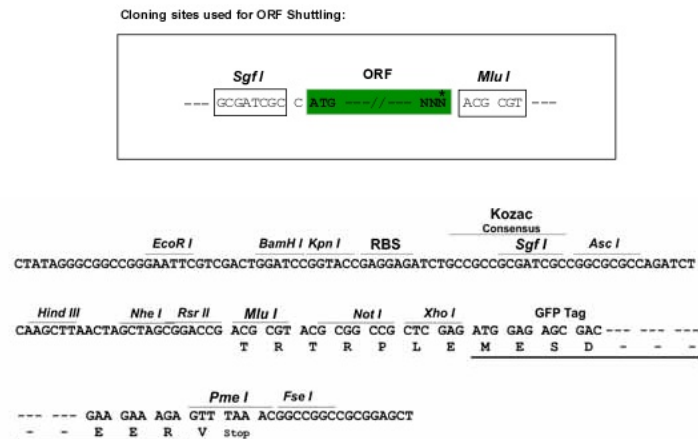
MAAVSGSGYARNDAGEKLPSVMAGVPARRGQSSPPPAPPICLRRRTLSTASEETVQNRVSLEKVLGITA
QNSSGLTCDPGTHVAYLAGCVVILDPKENKQQHIFNTARKSLALAFSPDGKYIVTGENGHRPAVRIW
DVEENQVAEMLGHKYGVACVAFSPNMKHIVSMGYQHDMVLNVWDKKDIVVASNKVSCRVIASFSEDS
SYFVTVGNRHVRFWFLEVSTETKVTSTVPLVGRSGILGELHNNIFCGVACGRGRMAGSTFCVSYSGLLCQ
FNEKRVLEKWINLKVSLSSCLCVSQELIFCGCTDGIIVRIFQAHSLSHYLANLPKPHYLGVDAQGLEPSFL
FHRKAEAVYPDTVALTFDPIHQWLSCVYKDHSIYIWDVKDINRVGKVVWSELFHSSYVWNVEVYFEFDQR
ACLPSSGFLTCSSDNTIRFWNLDSPPDSHWQKNIFSNLTKVVYVENDIQHLQDMSHFPDRGSENGTMD
VKAGVRVMQVSPDGQHLASGDRSGNLRHILHFMDELVKVEAHDAEVLCLYESKPEGLTLLASASRDRL
IHVLNVEKNYNLEQTLDDHSSSITAIFKAGNRDIQMI SCGADKSIYFRSAQQGSDGLHFVRTHHVAEKT
LYDMDIDITQKYVAVACQDRNVRYNTVNGKQKKCYKGSQGDGSLKLVHVDPSGTLATSCSDKISVI
DFYSGECIAKMFHSEIITSMKFTYDCHHLITVSGDCVFIWHLGPEITNCMKHLLIDHRQQQHTND
KKRSGHPRQDTYVSTPSEIHSLSPGEQTEDDLEEECEPEMLKTPSKDSLDPDPRCLLTNGKLPLWAKRL
LGDDDDVADGLAFHAKRSYQPHGRWAERAGQEPLKTIILDAQDLDCYFTPMKPESLENSILDSLEPQSLASL
LSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVGTDSQYCRKEVEAGPGDQQGDSYLRVSS
DSPKQDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELSLEPGSPVSSSL
PQTPEQEKFLRHHFETLTESPCRELFPALGDVEASEADHFFNPRLSISTQFLSSLQKASRFTHTFPPR
ATQCLVKSPYKLMRGGSQPRAGTGYASPDRTHTVLAAGKAEETLEAWRPPPPCLTSLASCPASSVLP
DRNLPTPTSAPTPLAQQGVHAPSTCSYMEATASSRARISRSISLGDESGPIVATLAQPLRRPSSVGLAS
LGQELQAITTATPSLDSEGEALRSWGNHEARANLRLTLSSACDGLLQPPVDTPQGVTPAVSFPAPS
PVEESALRLHGSAPRSLPAPESPLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSAPRWSEP
WYPVEALPPSPLELSRVGNILHRLQTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAEC
LVGTSVAPAQALPSPGPPSPPTLYPLASPLQLALLEHYSSELLVQAVRRKARGH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

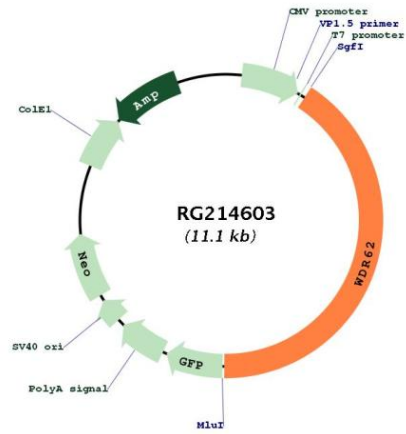
NM_001083961

ORF Size:

4569 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_001083961.2
RefSeq Size:	4746 bp
RefSeq ORF:	4572 bp
Locus ID:	284403
UniProt ID:	O43379
Cytogenetics:	19q13.12
Gene Summary:	This gene is proposed to play a role in cerebral cortical development. Mutations in this gene have been associated with microencephaly, cortical malformations, and cognitive disability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2011]

Product images:



Circular map for RG214603