

Product datasheet for **RC208682**

WDR54 (NM_032118) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR54 (NM_032118) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208682 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCGCTGGGAGCGCTCCATCCCCTGCGAGGCTCGGCCGCCGCCCTGTGCAACAACCTCAGTGTGC
TGCAGCTGCCGGCTCGCAACCTCACGATTTTGGCGTGGTTCATGGACCAAGCGCCAGCTTCTCAGCGC
TGCTCCTGAGGGTGTGCCCTTGGCCAGCGCCAGCTCCACGCTAAGGAGGGTGTGGAGTGAGTCCCCCA
CTTATCACTCAGGTCCACTGGTGTCTCCCTCCCTCCGAGTGTGCTGGTACTCACCTCACATCAGGAA
TACAGATGTACGAGTCCAATGGCTACACCATGGTCTACTGGCATGCACTGGACTCTGGAGATGCCTCCCC
AGTACAGGCTGTGTTTGGCCGGGAATTGCTGCCAGTGGCCACTTCATCTGTGTGGGAACGTGGTCAGGC
CGGGTGTGGTGTGGTACATCCCAGCAAAGGGTCCCAACATTGTAAGTACTGAGCGAGGAGCTGGCTGGGCACC
AGATGCCAATCACAGACATTGCCACCGAGCCTGCCAGGGACAGGATTGTGTGGCTGACATGGTACGGC
AGATGACTCAGGCTTGTGTGTCTGGCGGTGAGGGCCAGAATTCACATTATTGACCCGCATTCCAGGA
TTTGGAGTTCCGTGCCCTCTGTGCAGCTGTGGCAGGGGATCATAGCAGCAGGCTATGGGAACGGACAAG
TGCATCTATATGAGGCCACTACAGGAACTACATGTCCAGATCAATGCCATGCCCGGGCCATCTGCGC
CCTGGACCTGGCTTCTGAGGTGGCAAGCTACTCTCTGCAGGTGAGGACACCTTTGTGCATATCTGGAAG
CTGAGCAGAAACCCAGAGAGTGGCTACATTGAGGTGGAACACTGTGATGGTGTGTCGCGGACACCC
AGCTGTGTGGTGTGCTGATTTTGTGATTCTCAGGCAACTCCTTTGCTGTGACTGGCTATGACCTTGGGA
GATCCGGAGATTCAGCAGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208682 protein sequence
Red=Cloning site Green=Tags(s)

MFRWERSIPLRGSAAALCNLSVLQLPARNLTYFGVVHGPSAQLLSAAPEGVPLAQRQLHAKEGAGVSPP
 LITQVHWCVLPRVLLVLTSHRGIQMYESNGYTMVYWHALDSGDASPVQAVFARGIAASGHFICVGTWSG
 RVLVFDIPAKGPNIVLSEELAGHQMPITDIATEPAQGQDCVADMVTADDSGLLCVWRSRGPEFTLLTRIPG
 FGVPSPSVQLWQGIIAAGYGNQVHLYEATTGNLHVQINAHARAICALDLASEVGKLLSAGEDTFVHIWK
 LSRNPESGYIEVEHCHGECVADTQLCGARFCSSGNSFAVTGYDLAEIRRFSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6362_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032118

ORF Size: 1002 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_032118.4](#)

RefSeq Size: 1223 bp

RefSeq ORF: 1005 bp

Locus ID: 84058

UniProt ID: [Q9H977](#)

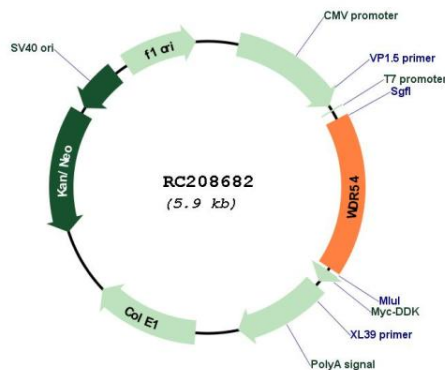
Cytogenetics: 2p13.1

Domains: WD40

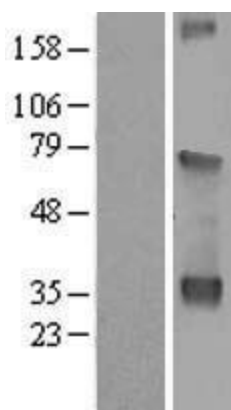
MW: 35.9 kDa

Gene Summary: When cross-linked to form dimers and trimers, it has a regulatory effect on ERK signaling pathway activity in response to EGF stimulation. Colocalizes with the EGF receptor in WDR54-specific vesicle where it sustains the internalization and controls the degradation of the EGF receptor after EGF stimulation.[UniProtKB/Swiss-Prot Function]

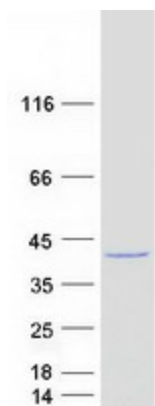
Product images:



Circular map for RC208682



Western blot validation of overexpression lysate (Cat# [LY410314]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208682 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WDR54 protein (Cat# [TP308682]). The protein was produced from HEK293T cells transfected with WDR54 cDNA clone (Cat# RC208682) using MegaTran 2.0 (Cat# [TT210002]).