

Product datasheet for **RG200829**

GRWD1 (NM_031485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GRWD1
Synonyms:	CDW4; GRWD; RRB1; WDR28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG200829 representing NM_031485
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCGAGTCCGGCGACA
 CAAGTTCCGAGGGCCCGGCCAGGTCTACCTGCCCGGCCGGGGCCGCCGCTACGCGAAGGGGAGGAGCT
 GGTCATGGACGAGGAGGCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTGAC
 ATAGTCCGGGATCACCTGGGAGACAACCGACAGAGCTTCTCTTACACTTTACTTGTGTGCTGGGACCC
 AGGCTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCC
 ACCCTCAGAGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAG
 CTGGAGCTGGCCATGGTGCCCACTATGGTGGCATCAACCGAGTTCGGGTGTCTATGGCTGGGTGAAGAGC
 CTGTGGCTGGGGTGTGGTCAGAGAAGGGCCAGGTGGAGGTGTTGCGCTGCGGCGGCTTCTCGAGGTGGT
 GGAGGAGCCCCAGGCCCTGGCAGCCTTCTCCGGGATGAGCAGGCCCAATGAAGCCCATCTTCTCCTTC
 GCTGGACACATGGGCGAGGGCTTTGCCCTTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTG
 ACTGTCAAAAGAACATCCACCTCTGGACACCTACGGACGGCGGCTCCTGGCACGTGGACAGCGGCCATT
 CGTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGTCACCGACTGAGAACACGGTGTTCCTCCTGC
 TCAGCTGAGCCTCCATCCGCATCTGGGACATCCGGGACGCCCCAGCAAGGCTGCATGCTCACCACAG
 CCACCGCCCATGATGGGGACGTCAATGTCACTCAGCTGGAGCCGCCGGGAGCCCTTCTGCTCAGTGGCGG
 GGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAGTCTGGTTCCTCCAGTGGCCACCTTCAAG
 CAGCACGTGGCCCCGTGACCTCCGTCGAGTGGCAGCCCCAGGACAGCGGGGTCTTTGCAGCCTCGGGTG
 CAGACCACAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCTGAGGCGGGCGACGTGGAGGCCGA
 CCCCAGCTGGCCGACCTCCCGCAGCAGCTGCTGTTCTGTGACCAGGGCGAGACCGAGCTGAAGGAGCTG
 CACTGGCACCCGAGTGGCCAGGGCTCCTGGTCAGCACGGCGCTGTGAGGCTTCACCATCTTCGCACCA
 TCAGCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200829 representing NM_031485
 Red=Cloning site Green=Tags(s)

MAARKGRRRTCETGEPMEAESGDTSSSEGAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFD
 IVRDHLGDNRELPLTLYLCAQTQAESAQSNRLMMLRMHNLHGTPPPSEGSDEEEEEDEEDEERKPQ
 LELAMVPHYGGINRVVSWLGEVPVAGVWSEKQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSF
 AGHMGEGFALDWSRVTRGRLLTGDCQKNIHLWPTDGGSWHVDQRPFGVHTRSVEDLQWSPTEVFASC
 SADASIRIWDIRAAPSKACMLTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFK
 QHVAPVTSVEWHPQDSGVFAASGADHQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKEL
 HWHPQCPGLLVSTALSGFTIFRTISV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031485

ORF Size: 1338 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.

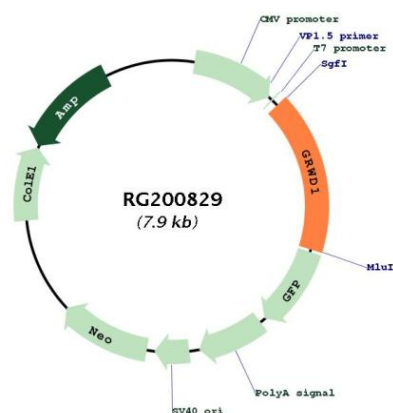
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031485.1](#)

RefSeq Size:	2414 bp
RefSeq ORF:	1341 bp
Locus ID:	83743
UniProt ID:	Q9BQ67
Cytogenetics:	19q13.33
Domains:	WD40

Gene Summary: This gene encodes a glutamate-rich protein that contains five WD-repeat motifs. The encoded protein may play a critical role in ribosome biogenesis and may also play a role in histone methylation through interactions with CUL4-DDB1 ubiquitin E3 ligase. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG200829