

Product datasheet for RG228734

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Tryptophan rich protein (WRB) (NM_001146218) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tryptophan rich protein (WRB) (NM_001146218) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: GET1

Synonyms: CHD5; WRB

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG228734 representing NM_001146218
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGCTCAGCCGGCCGACCACTGGGCGTGGTTGCTGGTGCTCAGCTTCGTGTTTTGGATGCAATGTTC
TTAGGATCCTCCCCCCCCCTCCTCTCATCCTTCATGTCCAGGGTGCTGCAGAAGGACGCGGAGCAGGAGTC
ACAGATGAGAGCGGAGATCCAGGACATGAAGCAGGAGCTCTCCACAGTCAACATGATGGACGAGTTTGCC
AGATATGCCAGGCTGGAAAGAAAGATCAACAAGATGACGGATAAGCTCAAAACCCATGTGAAAGCTCGGA
CAGCTCAATTAGCCAAGATAAAATGGGTGATAAGTGTCGCTTTCTACCGTATTGCAGGCTGCCCTGATGAT
CTCACTCATTTGGAAGTATTATTCTGTCCCTGTGGCTGTCGTGCCGAGTAAATGGATAACCCCCCCTAGAC
CGCCTGGTAGCCTTTCCTACTAGAGTAGCAGGTGGTGTTGGAATTACCTGTTGGATTTTAGTCTGTAACA

AAGTTGTCGCTATTGTGCTTCATCCGTTCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228734 representing NM_001146218

Red=Cloning site Green=Tags(s)

MSSAAADHWAWLLVLSFVFGCNVLRILLPSFSSFMSRVLQKDAEQESQMRAEIQDMKQELSTVNMMDEFA RYARLERKINKMTDKLKTHVKARTAQLAKIKWVISVAFYVLQAALMISLIWKYYSVPVAVVPSKWITPLD

RLVAFPTRVAGGVGITCWILVCNKVVAIVLHPFS

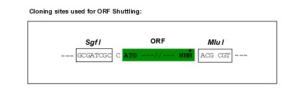
TRTRPLE - GFP Tag - V

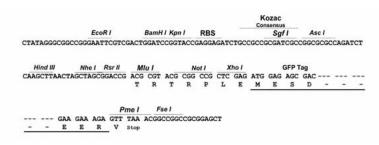
Restriction Sites: Sgfl-Mlul



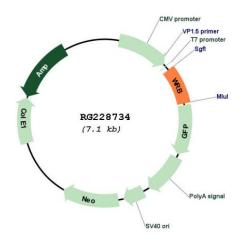


Cloning Scheme:





Plasmid Map:



ACCN: NM_001146218

ORF Size: 420 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.



Cytogenetics:

Tryptophan rich protein (WRB) (NM_001146218) Human Tagged ORF Clone - RG228734

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: <u>NM 001146218.1</u>, <u>NP 001139690.1</u>

21q22.2

 RefSeq Size:
 1470 bp

 RefSeq ORF:
 423 bp

 Locus ID:
 7485

 UniProt ID:
 000258

Protein Families: Transmembrane

Gene Summary: This gene is located in the candidate region for congenital heart disease (CHD) in Down

syndrome (DS). It encodes a basic protein that functions as a receptor that promotes insertion of tail-anchored proteins in the endoplasmic reticulum membrane. This gene is located at a maternally-methylated differentially methylated region (DMR); however, its transcription may be biallelic, not imprinted. Alternative splicing results in different transcript variants. A pseudogene has been defined on chromosome 4. [provided by RefSeq, Apr 2017]