

## Product datasheet for **RG202035**

### Tryptophan rich protein (WRB) (NM\_004627) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tryptophan rich protein (WRB) (NM\_004627) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tryptophan rich protein  
**Synonyms:** CHD5; WRB  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202035 representing NM\_004627  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTCAGCCGCGCCGACCACTGGCGTGGTTGCTGGTGCTCAGCTTCGTGTTGGATGCAATGTTC  
 TTAGGATCCTCCTCCCGTCTTCTCATCTTCATGTCCAGGGTGTGCAGAAGGACGCGGAGCAGGAGTC  
 ACAGATGAGAGCGGAGATCCAGGACATGAAGCAGGAGCTCTCCACAGTCAACATGATGGACGAGTTTGCC  
 AGATATGCCAGGCTGAAAGAAAGATCAACAAGATGACGGATAAGCTCAAACCCATGTGAAAGCTCGGA  
 CAGCTCAATTAGCAAGATAAAATGGGTGATAAGTGTGCTTTCTACGTATTGCAGGCTGCCCTGATGAT  
 CCACTCATTGGAGTATTATTCTGTCCCTGTGGCTGTGCGTCCGAGTAAATGGATAACCCCTAGAC  
 CGCCTGGTAGCCTTTCTACTAGAGTAGCAGGTGGTGGTGAATTACCTGTTGGATTTAGTCTGTAACA  
 AAGTTGTCGCTATTGTGCTTCATCCGTTTCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202035 representing NM\_004627  
 Red=Cloning site Green=Tags(s)

MSSAAADHWALLVLSFVFGCNVLRILLPSFSSFMSRVLQKDAEQESQMRAEIQDMKQELSTVNMMEFA  
 RYARLERKINKMTDKLKHVKARTAQALAKIKWVISVAFYVLAALMISLIWKYYSVPVAVVPSKWITPLD  
 RLVAFPTRVAGGVGITCWILVCNKVVAIVLHPFS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_004627

**ORF Size:** 522 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\\_004627.2](#), [NP\\_004618.2](#)

**RefSeq Size:** 1360 bp

**RefSeq ORF:** 525 bp

**Locus ID:** 7485

**UniProt ID:** [O00258](#)

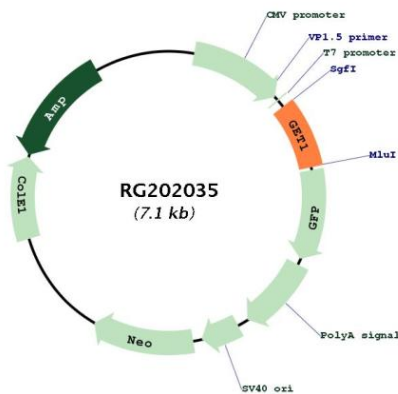
**Cytogenetics:** 21q22.2

**Domains:** CHD5

**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]

**Product images:**



Circular map for RG202035