

Product datasheet for **SC117233**

Tryptophan rich protein (WRB) (NM_004627) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tryptophan rich protein (WRB) (NM_004627) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tryptophan rich protein
Synonyms:	CHD5; WRB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117233 sequence for NM_004627 edited (data generated by NextGen Sequencing)

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ATGAGCTCAGCCGCGCCGACCACTGGGCGTGGTTGCTGGTGCTCAGCTTCGTGTTTGGGA
TGCAATGTTCTTAGGATCCTCCTCCCGTCTTCTCATCCTTCATGTCCAGGGTGCTGCAG
AAGGACGCGGAGCAGGAGTCACAGATGAGAGCGGAGATCCAGGACATGAAGCAGGAGCTC
TCCACAGTCAACATGATGGACGAGTTTGCCAGATATGCCAGGCTGGAAAGAAAGATCAAC
AAGATGACGGATAAGCTCAAACCCATGTGAAAGCTCGGACAGCTCAATTAGCCAAGATA
AAATGGGTGATAAGTGTGCGTTTCTACGTATTGCAGGCTGCCCTGATGATCTCACTCATT
TGGAAGTATTATTCTGTCCTGTGGCTGTCGTGCCGAGTAAATGGATAACCCCTCTAGAC
CGCCTGGTAGCCTTTCTACTAGAGTAGCAGGTGGTGTGGAATTACCTGTTGGATTTTA
GTCTGTAACAAAGTTGTCGCTATTGTGCTTCATCCGTTTCAGCTGA
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Clone variation with respect to NM_004627.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004627 unedited
TCAAAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGTGGAGCTGCCGT
AGCGGACCCAGCACAGCCAGGAGCGTCCGGGATGAGCTCAGCCGCGGCCGACCACTGGGC
GTGGTTGCTGGTCTCAGCTTCGTGTTTGGATGCAATGTTCTTAGGATCCTCCTCCCGTC
CTTCTCATCCTTCATGTCCAGGGTGTGCAGAAGGACGCGGAGCAGGAGTCACAGATGAG
AGCGGAGATCCAGGACATGAAGCAGGAGCTCTCCACAGTCAACATGATGGACGAGTTTGC
CAGATATGCCAGGCTGGAAGAAAGATCAACAAGATGACGGATAAGCTCAAAACCCATGT
GAAAGCTCGGACAGCTCAATTAGCCAAGATAAAATGGGTGATAAGTGTGCTTTTCTACGT
ATTGCAGGCTGCCCTGATGATCTCACTCATTGGAAGTATTATTCTGTCCCTGTGGCTGT
CGTGCCGAGTAAATGGATAACCCCTCTAGACCGCCCTGGTAGCCTTTCCTACTAGAGTAG
CAGGTGGTGTGGAAATTACCTGTGGATTTTAGTCTGTAACAAAGTTGTCGCTATTGTGC
TTCATCCGTTTACGCTGAACAGGAGGATGGATACAGCCGCGAGGCCTAAAAACGGATTTC
TCTTCCCTACTTAAAATCTGATTTACACTGTTTTGTTTTTAAAGAAACCAAGTGCATAG
TTTAGATTCTTTTTGGTGAAATGCTTGCTCTTGACTTTATGAGATAGTCTTTTAAG
ATCAGATTTTCTACCCGTCATGGACCCAGAAGGCCAGTTTATGACCCGTATGCCTAT
GGAACACGTCCTCCATCTGTCCAAATGCGAAATGCTTAGGAACCTCCCCTGCTGCCCT
TGGGATTTGCCCTCTTAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004627 unedited
GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGTTCAGATTAATTTAATCA
GGACTTATAAGGTTTGTCTGTGTTCCATTCTAAAGAGCATAAATATTTAAATGCTTAT
AAAATACACTTCATTCAAATGCTTTAAATACAAAACACAAGTTGAGCACAAAACATGC
ATCATGGTCTCGTGGATACATTTACAAAACACTGTAATGAAAAATTAACAGCCTCAAGTA
AGTAGATAAATACTATACTACTCTTGCTCAACAAATGACATTTTAAACAAAGGGAGAAAA
GCCACGCAATGTCAATTAGTGTGTTCTTTTAAACCATATTGAATGTGATTAAGAAAGAA
ATTTTCGAATTTTGTAGTACGGTATTAATAAAGTTACTTTTAAACTGGATTAATAAAC
AGCACTAAGTCTTCAAAGAACTTACTTAAAGTTGTTAGAAAAATTTGACTTTCCAGTTGG
CAATATGACCAAAATACATAAGAGGGCAAATCACAAAGTACAGCATGGAGATGTCCTTAA
ACATTTTACATTTTCGTACAGATCGAGGACGGTGTCTACTAGTACATACGTGTCATAAACT
GGACTTTCTTGGCTCAATGACAGGTGTAGAAAAATCGTGATTCTTATAAGACTATCTCATA
AAGTCCAAGAACAACATATTCAACAAAAAATCTAACTATGCACCTTTTGTCTT
AAAAACAAAACAGTGTAAATCAGATTTTAAAGCTAGGAAGGAAATCCGTTTTTTAGCC
TCGCGGCTGTATCCATCCTCNCCTGTCAGCTGAACGGATGAAGCACAATAGCGACAACCTT
GTTACAGACTANAATCCACAGGTAATTNNCACACCACCTGCTACTCTAGTANGAAAGGC
TACCCAAGCGTCTAAAGGGGTATNCCANTACTCCGNACGAAGCACAGGAACGNATATACT
NCAATGAGTGAACATCAGGCAGCTGCATAC

Restriction Sites:

NotI-NotI

ACCN:

NM_004627

Insert Size:

1260 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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]
Transcript Variant: This variant (1) encodes the longest isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.