

Product datasheet for **RC228734**

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:	Myc-DDK
Symbol:	Tryptophan rich protein
Synonyms:	CHD5; WRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228734 representing NM_001146218 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCTCAGCCGCGCCGACCACTGGCGTGGTTGCTGGTGCTCAGCTTCGTGTTGGATGCAATGTTC
TTAGGATCCTCCTCCCGTCCTTCTCATCCTTCATGTCCAGGGTGCAGAAAGGACGCGGAGCAGGAGTC
ACAGATGAGAGCGGAGATCCAGGACATGAAGCAGGAGCTCCACAGTCAACATGATGGACGAGTTTGCC
AGATATGCCAGGCTGAAAGAAAGATCAACAAGATGACGGATAAGCTCAAAACCCATGTAAAGCTCGGA
CAGCTCAATTAGCCAAGATAAAATGGGTGATAAGTGTCGCTTTCTACGTATTGCAGGCTGCCCTGATGAT
CTCACTCATTGGAAGTATTATTCTGTCCCTGTGGCTGTCGTGCCGAGTAAATGGATAACCCCTAGAC
CGCCTGGTAGCCTTTCCTACTAGAGTAGCAGGTGGTGGTGAATTACCTGTTGGATTTAGTCTGTAACA
AAGTTGTCGCTATTGTGCTTCATCCGTTTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC228734 representing NM_001146218 Red=Cloning site Green=Tags(s)
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MSSAAADHWALLVLSFVFGCNVLRILLPSFSSFMSRVLQKDAEQESQMRAEIQDMKQELSTVNMMEFA
RYARLERKINKMTDKLTHVKARTAQLAKIKWVISVAFYVLAALMISLIWKYYSVPVAVVPSKWITPLD
RLVAFPTRVAGVGITCWILVCNKVVAIVLHPFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/ja1451_e06.zip
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146218

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 ORF: 423 bp

Locus ID: 7485

UniProt ID: [O00258](#)

Cytogenetics: 21q22.2

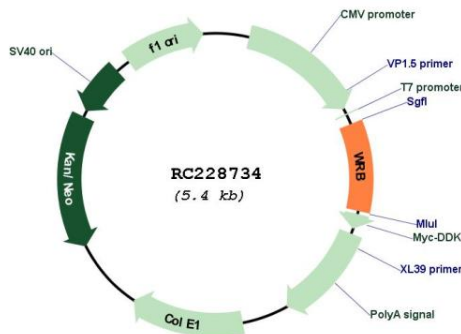
Protein Families: Transmembrane

MW: 19.78 kDa

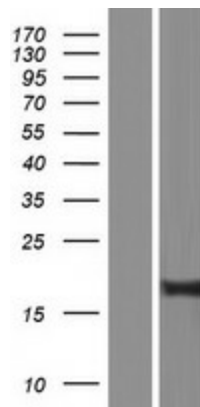
Gene Summary:

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 RC228734



Western blot validation of overexpression lysate (Cat# [LY431762]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228734 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).