

Product datasheet for **RR216879**

Wls (NM_001085353) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wls (NM_001085353) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wls
Synonyms:	Gpr177
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR216879 representing NM_001085353
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGGGGCAATTATAGAAAACATGAGCACCAAGAAGCTCTGCATTGTTGGAGGGATTCTTCTGGTTT
 TCCAAATCGTTGCCTTTCTGGTGGGAGGCTTGATCGCTCCAGCACCCACAACGGCAGTGTCTACGTGGC
 AGCAAAATGTGTGGATGTCCGGAAGAACCACCATAAAACAAGATGGCTGATGCCCTGGGGACCAACAAG
 TGTAACAAGATCAATGACTTCGAAGAAGCAATCCAAGGAAATGAAGCGAATGACATTGTGTTTTCTG
 TACACATTCCTCCCTTCTATGGAGATGAGCCCATGGTTCCAGTTTATGCTGTTTATCTGCAGATAGA
 CATTGCTTTCAAGCTAAACAACCAATCAGAGAAAATGCAGAAGTTTCCATGGATGTTTCCCTGGGTTAC
 CGTGATGATATGTTTTCTGAGTGGACTGAAATGGCGCACGAAAGAGTACCACGTAAACTCAGATGCACTT
 TCACATCCCCAAGACCCAGAGCATGAAGGTCGTCATTATGAATGTGATGTCCTTCCTTTCATGGAAT
 TGGGTGAGTGGCTCATAAGTATTACCTTCTAAATATCCGGCTACCTGTAATGAGAAGAAGAAAATCAAT
 GTTGGAATTGGGAAATAAAGGACATTCGGTTGGTGGGAATCCACCAAAATGGAGGTTTCTACTAAGGTAT
 GGTGTTGCTATGAAGACCTTCTCACACCCAGCATCTTCATCATTATGGTGTGGTATTGGAGAAGGATCAC
 CATGATGTCCCGACCTCCAGTGCTTCTGGAAAAAGTCATCTTGGCCTTGGGATTTCATGACCTTTATC
 AATATCCCTGTGGAATGGTTTTCCATTGGATTTGATTGGACCTGGATGCTGTTATTTGGTGACATACGAC
 AGGGCATCTTCTATGCAATGCTTCTTCTTCTGGATCATCTTCTGTGGCGAGCAGATGATGGATCAACA
 TGAGCGGAATCACATTGCAGGGTATTGGAAGCAAGTTGGACCAATTGCTGTTGGCTCTTCTGCCTCTTC
 ATATTTGACATGTGTGAGAGAGGAGTGCAACTCACAAATCCTTTCTACAGTATCTGGACTACAGATGTTG
 GAACAGAACTGGCTATGGCTTTCATCATTGTGGCAGGTATCTGCCTCTGCCTCTACTTCTGTTTCTGTG
 TTTTCATGGTATTTCAAGTATTCAGAAACATCAGTGGGAACAGCTAGCCTCCCAGCCATGAGCAAAAGTC
 CGGAGGCTGCACTATGAGGGTCTGATTTTCAGGTTCAAGTTCTCATGCTGATCACCTTGGCTTGTGCTG
 CCATGACTGTTATCTTCTTATTGTTAGTCAGGTGACAGAAGGCCATTGGAAATGGGGTGGGGTCACAGT
 TCAAGTGAGCAGTGCTTCTTCTACTGGAATCTATGGGATGTGGAACCTGTATGCTTTGCTTTGATGTTT
 TTGTATGCACCATCCCATAGAAGTATGGGGAAGACAGTCTAATGGTGACCTGGGTGTCCACAGCGGGG
 AAGAAGTCAGCTCACTACCACAATCACCCATGTAGATGGACCGACTGAGATCTACAAGTTGACCCGTAA
 AGAAGCACAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216879 representing NM_001085353
 Red=Cloning site Green=Tags(s)

MAGAIENMSTKKLCIVGGILLVFQIVAFVLVGLIAPAPTTAVSYVAAKCVDRKNHHKTRWLMWPWPNK
 CNKINDFEEAIPREIEANDIVFSVHIPLPSMEMSPWFQFMLFILQIDIAFKLNNQIRENAEVSMDVSLGY
 RDDMFSEWTEMAHERVPRKLRCFTFTSPKTPEHEGRHYECDVLPFMEIGSVAHKYLLNIRLPVNEKKIN
 VGIGEIKDIRLVGIHQNGGFTKVWFAMKFTLTPSIFIIMVWYWRITMMSRPPVLEKIVIFALGISMTFI
 NIPVEWFSIGFDWTWMLFGDIRQGI FYAMLLSFWIIFCGEHMMDQHERNHIAGYWKQVGP IAVGSFCLF
 IFDMCERGVQLTNP FYSIWTTDVGTELAMAFIIVAGICLCLYFLFLCFMVQVFRNISGKQSSLPAMSKV
 RRLHYEGLIFRFKFLMLITLACAAMTVIFFIVSQVTEGHWKWGGVTVQVSSAFFTG IYGMWNLYVFALMF
 LYAPSHKNYGEDQSNGLGVHSGEELQLTTTITHVDGPTEIYKLTRKEAQE

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001085353

ORF Size: 1623 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_001085353.1](#), [NP_001078822.1](#)

RefSeq Size: 2640 bp

RefSeq ORF: 1626 bp

Locus ID: 362065

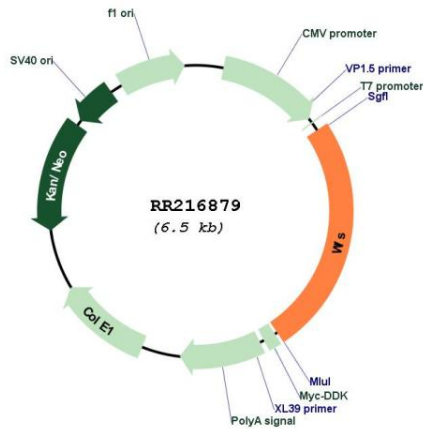
UniProt ID: Q6P689

Cytogenetics: 2q45

MW: 62.2 kDa

Gene Summary: Regulates Wnt proteins sorting and secretion in a feedback regulatory mechanism. This reciprocal interaction plays a key role in the regulation of expression, subcellular location, binding and organelle-specific association of Wnt proteins. Plays also an important role in establishment of the anterior-posterior body axis formation during development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR216879