

Product datasheet for **RR206606**

Pomt1 (NM_053406) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomt1 (NM_053406) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pomt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR206606 representing NM_053406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAACCGCTCAATGGGACGCGAAGATACGCTTGGTGTCTCCCGAGCTTGCTTTTCTGCAAAATGT
 TGAGATTTTGAACGGCTCTAGTGGTACTATTGACATCAATTTGAATTTGGTGGCTCTGACTGTCT
 GGGACTACTTACCCGTTATGGCAACTCTCTACCCTCGGGCTGTGGTTTTTGGTGAAGTATTACGGG
 CAGTACATCTCCTTTTACATGAAGCGTGTCTTCTCTGGATGACAGTGGACCACCGTTCGGCCATATGC
 TGCTAGCCTTAGGAGTTGGCTAGGAGGATTCGATGGAACTTTCTGTGGAACCGAATTGGAGCAGAATA
 CAGTAGCAATGTGCTGTATGGTCTTACGCTGCTGCCGGCGTTGCTGGGGCCCTGTCAGTACCCATG
 GCCTACCAGATAGTGTGGAGCTCCACTTTCCACTGTACTGCCATGGGAGCCGCCCTGCTGATGCTCA
 TTGAGAACGCCATAACTCACTCAGTCCAGGCTCATGCTGTTGGAATCCATACTGATATTTTTAACCTCT
 GGCCGTGTGTCCTATCTGAAGTCTTCAACTCCCAAACACACAGCCCTTCTCAGTGCCTGGTGGCTG
 TGCTAATGCTGACCGGAGTCTTGTCTGTGCGGTTGGGATCAAGTACATGGGCATTTTCACCTACT
 TGCTCGTGTCTCAGCATTGCAGCTGTGCATGCCTGGCACCTGATCGGAGACCAGACCTTGTCAAATATCTG
 CGTGCTCAGTCACTTGCTCGCCAGAGCCGTAAGCTCTGCTGGTCTGCCCGTCTTCTGTACTTACTGTTT
 TTCTATGTCCACCTGATGTTGCTCTACCCTCTGGGCCCATGACCAAATCATGTCCAGTGCCTTCCAAG
 CCAGCTTGGAGGGAGGGCTAGCCCGCATACCCAAAGGCCAGCCCTAGAGGTGGCCTTTGGTTCGAGGT
 CACTCTGAAGAGCGTCTCCGGCAAACCTTGCCCTGCTGGCTTTCATTGCGACAAGAACACCTATCCCATG
 ATATATGAGAATGGCCGTGGCAGCTCCCACCAGCAACAGGTGACCTGTTATCCCTCAAAGACATCAATA
 ACTGGTGGATCGTCAAGGACCTGGACGACACCAGCTGGTGGTAAACAACCCCCCAGGCCTGTGAGACA
 TGGAGACATTGTACAGCTCGTTACGGCATGACCACCGCCTGCTTAACACGCATGATGTCGCTGCCCCG
 CTGAGCCCCATTCTCAAGAAGTCTCTGCTACATTGACTATAACATCTCCATGCCTGCCAGAACCTCT
 GGAAACTGGACATTGTAACAGAGAGTCCAACCAGGATACCTGGAAGACTATCTTGTGAGAAGTGCCTT
 TGTGCATGTGAATACATCTGCCATCTTGAAGCTGAGCGGGGCTCACCTCCCTGACTGGGGATTTCCGGCAG
 TTGGAGGTGGTTGGGAGAAGTTGTCCCTCGGCCCCACGAGAGCATGGTATGGAATGTGGAAGAGCACC
 GCTATGGCAGAGGCCATGAGCAGAAGGAGAGGGAGCTGGAGCTCCACTCACCCACGCAGCATGATATCAG
 CAGGAACCTCAGCTTCATGGCCAGATTCTCGGAGTTACAGTGAAGATGCTGACGCTGAAGAATGAGGAC
 TTAGAACCACAGTACAGCTCCACCCGCTGGAGTGGCTCAGCTGGACACCAACATTGCCTATTGGCTGC
 ACCCCAGGACCAGTGCCAGATCCACTTGTGGAACATCGTGATCTGGACTTCAGCCAGCCTCGCCAC
 AGTGGCATAACCCCTACTCTTCTTCTGGTACCTGCTCCGCCGTGGAAGAACATCTGTGACCTCCCTGAG
 GATGCCTGGTCCCACTGGGTGCTGGCTGGAGCCCTGTGTATTGGCGGTTGGGCACTCAACTATCTGCCCT
 TCTTCTGATGGAAGGATGCTCTTCTCTACCACTACTTGCCGGCCCTCACCTCCAGATCCTGCTGCT
 CCCAATCGTCATGCAGCACGCCAGCGACCATCTGTGCAGTCCCAGCTGCAGAGGAATGTCTTCACTGCC
 CTGGTGGTAGCATGGTATTCTCTGCGTGCCATGTGTCCAACATGTTACGCCACTGACCTATGGGGACA
 CGTCACTCTACCAGGCGAGCTCCGGGCCCTTCGCTGGAAGACAGCTGGGACATTCTCATCCGAAAATA
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206606 representing NM_053406
 Red=Cloning site Green=Tags(s)

MGNRSMGREDTLGVLPSLLFCKMLRFLKRPLVVTIDINLNLVALTVLGLLTRLWQLSYPRAVVFDEVYYG
 QYISFYMKRVFFLDSSGPPFGHMLLALGGWLGFDGNFLWNRIGAEYSSNVPVWSLRLPALAGALSVPM
 AYQIVLELHFHSHCTAMGAALLMLIENALITQSRMLLESILIFFNLLAVLSYLKFFNSQTHSPFSVHWWL
 WLMLTGVS CSCAVGIKYMGIIFTYLLVLSIAAVHAWHLIGDQTL SNICVL SHLLARAVALLVVPVFLYLLF
 FYVHLMLLYRSGPHDQIMSSAFQASLEGGLARITQGPQLEVAFGSQVTLKSVSGKPLPCWLHSHKNTYPM
 IYENGRGSSHQQVTCYPFKDINNWWIVKDPGRHQLVNNPPRPVRHGDIVQLVHGMTTRLLNTHDVAAP
 LSPHSQEVSCYIDYNISMPAQNWLKLDIVNRESNQDTWKTILSEVRFVHVNTSAILKLSGAHLPDWGFRQ
 LEVVGEKLSLGPHESMVWNVEEHRYGRGHEQKERELHSPHQHDSRNL SFMARF SELQWKML TLKNE
 LEHQYSSSTPLEWLTLDNTIAYWLHPRTSAQIHLGNIVIWTSASLATVAYTLLFFWYLLRRRRNICDLPE
 DAWSHWVLGALCIGGWALNYLPFFLMERMLFLYHYLPALTFQILLPIVMQHASDHL CRSQLQRNVFSA
 LVVAWYSSACHVSNMLRPLTYGDTSLSPGELRALRWKDSWDILIRKY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053406

ORF Size: 2241 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_053406.2](#), [NP_445858.1](#)

RefSeq Size: 2929 bp

RefSeq ORF: 2244 bp

Locus ID: 84430

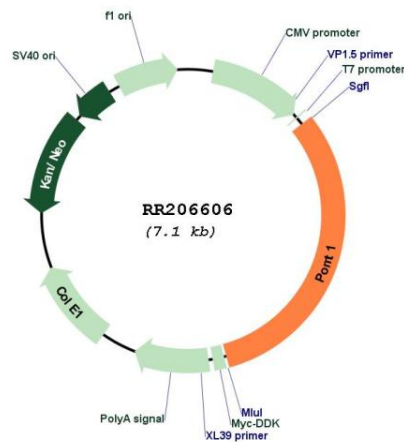
UniProt ID: [Q99PR0](#)

Cytogenetics: 3p12

MW: 85.5 kDa

Gene Summary: human homolog is mutated in patients with Walker-Warburg syndrome, a neuronal migration disorder [RGD, Feb 2006]

Product images:



Circular map for RR206606