

Product datasheet for **SC111947**

POF1B (NM_024921) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POF1B (NM_024921) Human Untagged Clone
Tag:	Tag Free
Symbol:	POF1B
Synonyms:	POF; POF2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111947 sequence for NM_024921 edited (data generated by NextGen Sequencing)

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ATGAGCTCGAGCTATTGGAGTGAGACGAGCAGCAGCAGCTGTGGAACCCAGCAGCTCCCA
GAGGTGCTGCAGTGCCAGCCCCAGCATTACCACTGCTACCATCAGTCAAGCCAAGCCAG
CAGCCTCCAGAAAAAATGTAGTGTATGAGCGAGTGAGGACCTACAGTGGGCCCATGAAC
AAGGTGGTGCAGGCCTTGGACCCCTTCAACTCACGGGAAGTGCTCTCCCTCTCAAAACC
ACCTCCTCCTACCAAAATTTGGTTTGGAGCGACCATTCTCAGGAATCCATTCTCCAAT
TTAAAAATATCTACATGTGCCCAAGTACTCTACATATAACCCAAAATACTGAACAGGAA
CTTCATTCTCCAACAGTGAACCTTACTACATATCCACAGACCACTATTAGGAAATATGTA
GTACAAAATCCTGAACAGGAACCACTGTCTCAATTCCTAAGAGGAAGCCATTTCTCCCA
GGAAACAATGTTATTTATGAAAAACAATAAGAAAAGTGGAGAAGCTAAATACTGATCAG
GGGTGCCATCCTCAGGCTCAATGCCATCATCACATTATCCAACAGCCCCAGGTCTCCAC
TCTGCACACTGGCAACAACCTGATTCTAGCCAGCAATCCAAGCCATCACAGGAAATAAT
CCAATTTCTACACATATTGGAATGAAGTGTGCCATAGTGGATCAAGCCAGATTTGTGAG
CAGGTGATAATTAGGATGATGGCCCTGAAAAATTGGACCCAGATATTTTGGAGAGTTG
CTTGCTGATCTGAGCCGTAAAGATACGGATCTATATCACTGCTTATTAGAACATTTGCAG
AGAATTGGAGGAAGCAACAGGACTTTGAGTCTACAGATGAGTCGGAAGACATTGAATCA
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AGAGCAAATAATCACCAGCAGCAGCAAGGACTTCAAGACTCAAGTTCAAAATGCCAGGCA
TTGGAAGAAAACAATCTCTCTCTCGACATACACTATCAGACATGGAATACAGACTAAAA
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TCTGAGACTTGCACAGGCCCAATGTTGCAGGCTAAAATGGATGAGATTGGCAACCACTAC
ACGGAGATGGTAAAAAATTGAGAATGGAGAAAGATAGAGAGATCTGCAGACTGAGGTCC
CAATTAACCAAGTACCATAAAGATGTTTCAAAGAGAGAAGGAAGTTGTAGTGACTTCCAA
TTTAAGCTTCATGAAGTACAAGCTTGCTGGAAGAGAAGGATTCCTCATAAAGCGTCAG
TCAGAGGAACTCTCAAGTTGCGGCAAGAAATATATTCCTCTCATAACCAACCTCCACT
GGTGAAGGACTACTATTACCACTAAAAAGTACAGGACACAATATCCAATCCTAGGCCTC
CTATATGATGACTACGAATATATACCACCAGGTAGTGAACACAGACTATTGTGATTGAG
AAACAGAAAGACAAATACACTTGTCCATGA

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Clone variation with respect to NM_024921.3
1045 a=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024921 unedited
AATACGACTCACTATAGGGCGGCCGCAATTTCGGCACGAGGGGAGGTCCCTTGCTGACC
ACTGGAAGAAGATGAGCTCGAGCTATTGGAGTGAGACGAGCAGCAGCAGCTGTGGAACCC
AGCAGCTCCCAGAGGTGCTGCAGTGCCAGCCCCAGCATTACCACTGCTACCATCAGTCAA
GCCAAGCCCAGCAGCCTCCAGAAAAAATGTAGTGTATGAGCGAGTGAGGACCTACAGTG
GGCCCATGAACAAGGTGGTGCAGGCCTTGAGCCCTTCAACTCACGGGAAGTGCTCTCCC
CTCTCAAAACCACCTCCTCTACCAAAATTTGGTTTGGAGCGACCATTCTCAGGAATCC
ATTCTCCAACCTTTAAAAATATCTACATGTGCCCAAGTACTCTACATATAACCCAAAAATA
CTGAACAGGAACCTTATTCTCCAACAGTGAACTTACTACATATCCACAGACCACTATTA
GGAAATATGTAGTACAAAATCCTGAACAGGAACCACTGTCTCAATTCCTAAGAGGAAGCC
ATTTCTTCCCAGGAAACAATGTTATTTATGAAAAACAATAAGAAAAGTGAGAGGCTAA
ATACTGATCAGGGGTGCCATCCTCAGGCTCAATGCCATCATCACATTATCCAACAGCCCC
AGGTCATCCACTCTGCACACTGGGCACACCCTGATTCTAGCCAGCANATCCCAGCCATCA
CAGGAAAAATCCAANTTCTACACANTATGAAAAATGAAGTGTGCCATAGTGGATCAGCC
ACGATTGTGAGCAGGTGATAATTAGGATGATGCCCCGAAAAATGCACCCCAATATTT
TGGNAGAGTTGCTTGCTGATCTGAGCCGTAGAATACGGATCTATCACTGCTTATTANA
AACATTGCAAAGAATGGNAGGAAGCAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024921 unedited
GACTGGGTTAGTATCATTTGTTACAACATCCAATTTACTCTTAGTTATTTGTACAATTAA
GCTATTATTGACTATACTACCCGGTTGTGCTATCAAATACTAGGTGCTTAATTTATACT
TCTCTAACTACATAGTCTTTTGTACACATTAAGCATCCCCAGTCCCCTCGCACACCCCT
TTTCCCAGCCACTAGTAACCATCCTTCTACTCTCTATATCCATGAGTTCAATTGTTTTGA
CTTTTAGATCCCGCAAATAATTGAGAACATGCAATGTTTGTCTGTTTCTGGCTTATGTCA
CTTAATATAGTGACCTCTAGTTCATCCATGACTCCTTAAGTCCCTGAATTTTGTGACA
CTATTATTTTTAAGTATTTTGGAAAACCTCACACCTGTTCTCATTTTTAAACCTTAATAAT
AACAAATTCCTACTAAGTAATAAACTTCCCCTTATATTATTTGTAATGTGTGCATAAC
ATAGTACACTTTTGTACAGTTACATATATGAATAGTTAGCAGAGGAGAACTCCTCCGT
TGTTCTACACCAAGGAAAAAATGTAAGGACTGTATAGCTCATGAATAATATTAACATT
TTTCTATCACAAAATATTGATAAAATTTGGAATTGTATCAATTCATGTTATGGAGCTTAAC
ATTTTAGCCGAAATATTAAGATAATATAAATAAGGCTTTTAGCTTCATATCAAGACCTAT
TTGAACACTTCTAGAAAAGAACATTAAGTTTTTTCTCATTTATGGTTTGATTAGTG
TAGTGCCTCAACTGTTCTTAATGGTGTCTTAGTATAATGCATAATTATTAGAATATAATT
ATAACGCATTACAGAATTTTATGTGGATACTTGCANAGATATTCAGTCCAAAACGTCAA
ATTACACACCCAAATT

Restriction Sites:

NotI-NotI

ACCN:

NM_024921

Insert Size:

4000 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:	<u>NM_024921.2, NP_079197.2</u>
RefSeq Size:	3942 bp
RefSeq ORF:	1770 bp
Locus ID:	79983
UniProt ID:	<u>Q8WVV4</u>
Cytogenetics:	Xq21.1
Gene Summary:	Premature ovarian failure (POF) is characterized by primary or secondary amenorrhea in women less than 40 years old. Two POF susceptibility regions called "POF1" and "POF2" have been identified by breakpoint mapping of X-autosome translocations. POF1 extends from Xq21-qter while POF2 extends from Xq13.3 to Xq21.1. This gene, POF1B, resides in the POF2 region. This gene is expressed at trace levels in mouse prenatal ovary and is barely detectable or absent from adult ovary, in human and in the mouse respectively. This gene's expression is restricted to epithelia with its highest expression in the epidermis, and oro-pharyngeal and gastro-intestinal tracts. The protein encoded by this gene binds non-muscle actin filaments. The role this gene may play in the etiology of premature ovarian failure remains to be determined. [provided by RefSeq, Jan 2010] Transcript Variant: This variant (1) represents the longer transcript.