

## Product datasheet for **SC302005**

### **PAPSS2 (NM\_001015880) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PAPSS2 (NM_001015880) Human Untagged Clone
Tag:	Tag Free
Symbol:	PAPSS2
Synonyms:	ATPSK2; BCYM4; SK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

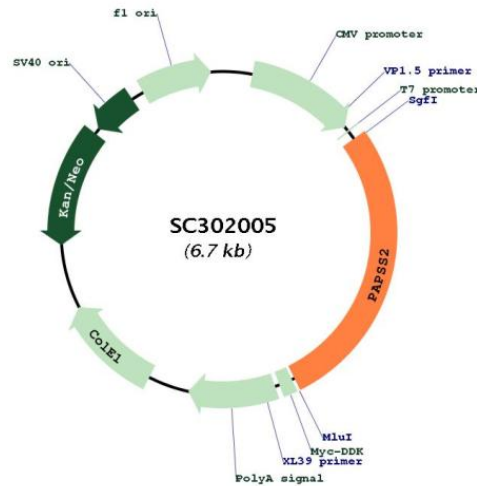
Fully Sequenced ORF: >SC302005 representing NM\_001015880.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCGGGGATCAAGAAGCAAAAGACGGGAGAACCCAGCAGAAAATCCACCAATGTAGTCTATCAGGCCAC
CATGTGAGCAGGAATAAGAGAGGGCAAGTGGTTGGAACAAGGGTGGTTCCGAGGATGTACCGTGTGG
CTAACAGTCTCTCTGGTGTGGAAAAACAACGATAAGTTTTGCCCTGGAGGAGTACCTTGTCTCCCAT
GCCATCCCTTGTACTCCCTGGATGGGACAATGTCCGTCATGGCCTAACAGAAAATCTCGGATTCTCT
CCTGGGGACAGAGAGGAAAATATCCGCCGATTGCTGAGGTGGCTAAGCTGTTTGTCTGATGCTGGTCTG
GTCTGCATTACCAGCTTTATTTCTCCATTCGCAAAGGATCGTGAGAATGCCCGCAAATACATGAATCA
GCAGGGCTGCCATTCTTTGAAATATTTGTAGATGCACCTCTAAATATTTGTGAAAGCAGAGACGTAATA
GGCCTCTATAAAAGGGCCAGAGCTGGGGAGATTAAGGATTTACAGGTATTGATTCTGATTATGAGAAA
CCTGAAACTCCTGAGCGTGTGCTAAAACCAATTTGTCCACAGTGAGTGACTGTGTCCACCAGGTAGTG
GAACTTCTGCAAGAGCAGAACATTGTACCTATACTATAATCAAAGATATCCACGAACTCTTTGTGCCG
GAAAACAAACTTGACCAGTCCGAGCTGAGGCTGAAACTCTCCCTTCATTATCAATTAAGCTGGAT
CTCCAGTGGGTCCAGTTTTGAGCGAAGGCTGGGCCACTCCCCTCAAAGTTTTATGCGGGAGAAGGAG
TACTTACAGGTTATGCACCTTTGACACCCTGCTAGATGGCATGGCCCTTCCTGATGGCGTGATCAACATG
AGCATCCCCATTGACTGCCCGTCTCTGCAGAGGATAAGACACGGCTGGAAGGGTGCAGCAAGTTTGTG
CTGGCAGATGGTGGACGGAGGGTAGCTATCTTACGAGACGCTGAATTCATGAACACAGAAAAGAGGAA
CGCTGTTCCCGTGTGGGGGACAACATGTACAAAACACCCCATATCAAATGGTGATGGAAAGTGGG
GACTGGCTGGTTGGTGGAGACCTTCAGGTGCTGGAGAAAATAAGATGGAATGATGGGCTGGACCAATAC
CGTCTGACACCTCTGGAGCTCAAACAGAAATGTAAGAAATGAATGCTGATGCGGTGTTTGCATTCCAG
TTGCGCAATCCTGTCCACAATGGCCATGCCCTGTTGATGCAGGACACTCGCCGCAGGCTCCTAGAGAGG
GGCTACAAGCACCCGGTCTCCTACTACACCCTCTGGGCGGCTGGACCAAGGATGACGATGTGCCTCTA
GACTGGCGGATGAAGCAGCACGCGGCTGTGCTCGAGGAAGGGTCTGGATCCCAAGTCAACCATTGTT
GCCATCTTCCGTCTCCCATGTTATATGCTGGCCACAGAGGTCCAGTGGCACTGCAGGTCCCGGATG
ATTGCGGGTGCCAATTTCTACATTGTGGGGAGGGACCCTGCAGGAATGCCCATCCTGAAACCAAGAAG
GATCTGTATGAACCCACTCATGGGGCAAGGTCTTGAGCATGGCCCTGGCCTCACCTCTGTGGAATC
ATTCCATTCCGAGTGGCTGCCTACAACAAAGCCAAAAAGCCATGGACTTCTATGATCCAGCAAGGCAC
AATGAGTTTGACTTCATCTCAGGAACTCGAATGAGGAAGCTCGCCGGGAAGGAGAGAATCCCCAGAT
GGCTTCATGGCCCCAAAGCATGGAAGTCTGACAGATTATTACAGGTCCCTGGAGAAGAACTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001015880

Insert Size: 1860 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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\\_001015880.1](#)

RefSeq Size: 3874 bp

RefSeq ORF: 1860 bp

Locus ID: 9060

UniProt ID: [O95340](#)

Cytogenetics: 10q23.2-q23.31

<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism, Selenoamino acid metabolism, Sulfur metabolism
<b>MW:</b>	70 kDa
<b>Gene Summary:</b>	<p>Sulfation is a common modification of endogenous (lipids, proteins, and carbohydrates) and exogenous (xenobiotics and drugs) compounds. In mammals, the sulfate source is 3'-phosphoadenosine 5'-phosphosulfate (PAPS), created from ATP and inorganic sulfate. Two different tissue isoforms encoded by different genes synthesize PAPS. This gene encodes one of the two PAPS synthetases. Defects in this gene cause the Pakistani type of spondyloepimetaphyseal dysplasia. Two alternatively spliced transcript variants that encode different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) includes an alternate in-frame segment, compared to variant 1, resulting in a longer protein (isoform 2), compared to isoform 1. Isoform 2 has also been named PAPS synthase 2b.</p>