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Product datasheet for SC123237

PARS2 (NM_152268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARS2 (NM_152268) Human Untagged Clone
Tag:	Tag Free
Symbol:	PARS2
Synonyms:	DEE75; EIEE75; MT-PRORS; proRS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_152268 edited
GCGCGCTGGCCCGGCACGGCGGTGGTCTTGCGGGAGGCGTGGGCTGGGATTGCGGTGCCT
GTGCTTCCCGGTGCCAGGGTGTCATGGAAGGGCTGCTGACAAGATGCAGAGCATTGCCCG
CCCTGGCCACCTGCAGCCGCCAGCTCTCTGGGTATGTTCCTTGCAGGTTTCACCACTGTG
CCCCAAGAAGAGGGCGGCGCCTGCTGCTGTCTCGTGTGTTCCAGCCACAGAACCTTCGGG
AAGACCGGGTGCTCTCCCTGCAGGACAAATCTGATGACCTGACCTGTAAGAGCCAGCGGC
TGATGCTGCAGGTGGGCCTGATCTACCCAGCAAGCCCCGGCTGTTACCACCTCCTGCCAT
ATACCGTCCGTGCCATGGAGAAGCTCGTGCGAGTGATAGACCAGGAGATGCAGGCCATCG
GGGGCCAGAAAGTCAACATGCCCAGCCTCAGCCCGGCAGAGCTCTGGCAAGCCACCAACC
GGTGGGACTTGATGGGCAAAGAGCTGCTAAGACTTAGAGACAGGCATGGCAAGGAATACT
GCTTAGGACCAACTCACGAGGAAGCCATTACGGCCTTAATTGCCTCCCAGAAGAAACTGT
CCTACAAGCAGCTTCCCTTCCTGCTGTACCAAGTGACAAGGAAGTTTCGGGATGAGCCCA
GGCCCCGCTTTGGTCTTCTCCGTGGCCGAGAGTTTTACATGAAGGATATGTACACCTTTG
ACTCCTCCCCAGAGGCTGCCCAGCAGACCTACAGCCTGGTGTGTGATGCCTACTGCAGCC
TGTTCAACAAGCTAGGGCTGCCATTTGTCAAGGTCCAGGCCGATGTGGGCACCATCGGGG
GCACAGTGTCTCATGAGTTCCAGCTCCCAGTGGATATTGGAGAGGACCGGCTTGCCATCT
GTCCCCGCTGCAGCTTCTCAGCCAACATGGAGACACTAGACTTGTCACAAATGAACTGCC
CTGCTTGCCAGGGCCCATTGACTAAAACCAAAGGCATTGAGGTGGGGCACACATTTTACC
TGGGTACCAAGTACTCATCCATTTTCAATGCCCAGTTTACCAATGTCTGTGGCAAACCAA
CCCTGGCTGAAATGGGGTGCTATGGCTTGGGTGTGACACGGATCTTGGCTGCTGCCATTG
AAGTCCTCTCTACAGAAGACTGTGTCCGCTGGCCCAGCCTACTGGCCCCTTACCAAGCCT
GCCTCATCCCCCCTAAGAAGGGCAGTAAGGAGCAGGCGGCCTCCGAGCTCATAGGGCAGC
TGTACGACCACATCACAGAGGCAGTGCCTCAGCTTCACGGGGAGGTGCTCCTGGACGACA
GGACCCATCTGACCATCGGAAACAGACTGAAAGATGCCAACAAGTTTGGCTACCCCTTTG
TGATAATCGCTGGCAAGAGGGCCCTGGAGGACCCTGCACATTTTGAGGTTTGGTGTCAGA
ACACTGGTGAGGTGGCCTTCCTCACCAAAGATGGAGTCATGGATTTACTGACCCCAGTGC
AGACTGTCTAAATGCCCCCAGCCCACCCCTGCCCCCATTTGCAGCCTTGGTGTTCGTTCT
AACACTGCATTTTCCTACACCCCTTTCCTGGACTGCTCTCTCCAGAAACAGCACAGCTCA
TGGAGGGTGAGATCATGTTAGGGAAATCAATTTTTATCTAGTCATTTGTTCAGATTATTT
GTATTTAAAGTCATTAACTTGATCCCTTTCTCCAGACTGGCCATGCCGCCATATACCTTT
CCTTTTGTATTCCATTGTGGAAGCTTCTAGGAGGCTGAGAAGCAGGAGATCCAAGCTCCA
GTCCTGGGTGTTACCCTGAGGGGGGAAGTCACTTCCCTTCTCTCAGCTGAGTTTTTCACG
TGTAAGATGAGAATGGCTGATGGCTGAGAGCCCACCAACCTTCCCCACCCCGTATCAGTT
TGACCACGGGCCTTTTGCTACATTCTATCCAGAGAGCAGGCCTGCCAGCCCCTCTCCACT
GAGAAGTTGGGCTGAGAGTATGGGGAAAAGAATCAAGAGACCTGACTGCCGCCAACTCAC
TAGTGACTTAGATACATCCCCTCCCCCTGCTGGGGCCTCAGTTTCCCCATCTGTAACTTG
AGAAAATAGAACTAGATCTGTAAAGTCTGGAACTAGATCTGTAACGTCCTTATAGGTGTC
ACTAGGGGGTTCCATGAGAGGTGTGTGACAGGCAGTCTGATTCCTCTCATTCTCCATAGT
CTGTTTCCTGGAAAGTCGATGTAATTAACTGATGGCCCAAAAACTACCTCAAGAGACCTG
GCCCTGTTAAGACGGCTTAACCACTGAGATCCCGTTCTATTGATTTAATAAAGTCAAACT
ATTGGAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_152268 unedited
TAGATTTGTATACGACTTATATAGGCGGCCGACGAATTCGCACGAGGGCGCGCTGGCCCG
GCACGGCGGTGGTCTTGCGGGAGGCGTGGGCTGGGATTGCGGTGCCTGTGCTTCCCGGTG
CCAGGGTGTCATGGAAGGGCTGCTGACAAGATGCAGAGCATTGCCCGCCCTGGCCACCTG
CAGCCGCCAGCTCTCTGGGTATGTTCCTTGCAGGTTTCACCACTGTGCCCCAAGAAGAGG
GCGGCGCCTGCTGCTGTCTCGTGTGTTCCAGCCACAGAACCTTCGGGAAGACCGGGTGCT
CTCCCTGCAGGACAAATCTGATGACCTGACCTGTAAGAGCCAGCGGCTGATGCTGCAGGT
GGGCCTGATCTACCCAGCAAGCCCCGGCTGTTACCACCTCCTGCCATATACCGTCCGTGC
CATGGAGAAGCTCGTGCGAGTGATAGACCAGGAGATGCAGGCCATCGGGGGCCAGATAGT
CAACATGCCCAGCCTCAGCCCGGCAGAGCTCTGGCAAGCCACCAACCGGTGGGACTTGAT
GGGCAAAGAGCTGCTAAGACTTATAGACAGGCATGGCAAGGAATACTGCTTAGGACCAAC
TCACGAGGAAGCCCTTACGGCCTTAATTGCCTCCCAGAAGATACTGTCCTACAAGCAGCT
TTCCCTTCCTGCTGTACCAAGTGACAAAGAAGTTTCCGGGTGAGCCCAAGCCCCCGCTTT
GGTCTTTCTCGTGGCCGAGAGTTTTACTGAAGGATATGTACACCTTTGACTCCTCCCCAA
AAGCTGCCCAACAAAACTACAGCCTGGTGTGGGATGCCTACTGCAGCCTGGTCAACAAGC
TAGGGCTGCCATTTGTCAAGGTCCAGCCCGATTTGGCCCCCTCCGGAGCCCAATGGTCTA
ATAATTCCAACTCCAATGGAATTTTGGAAAGGACCGGTTGCCAAACTTC
```

Restriction Sites: Please inquire

ACCN: NM_152268

Insert Size: 2373 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: NM_152268.2, NP_689481.2

RefSeq Size: 2364 bp

RefSeq ORF: 1428 bp

Locus ID: 25973

UniProt ID: Q7L3T8

Cytogenetics: 1p32.3

Protein Pathways: Aminoacyl-tRNA biosynthesis

Gene Summary: This gene encodes a putative member of the class II family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of proline to tRNA molecules. Mutations have been found in this gene in some patients with Alpers syndrome. [provided by RefSeq, Mar 2015]