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Product datasheet for RG203961

PARS2 (NM_152268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PARS2 (NM_152268) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PARS2
Synonyms:	DEE75; EIEE75; MT-PRORS; proRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG203961 representing NM_152268
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGGGCTGCTGACAAGATGCAGAGCATTGCCCGCCCTGGCCACCTGCAGCCGCCAGCTCTCTGGGT
ATGTTCCTTGCAGGTTTCACCACTGTGCCCCAAGAAGAGGGCGGCGCCTGCTGCTGTCTCGTGTGTTCCA
GCCACAGAACCTTCGGGAAGACCGGGTGCTCTCCCTGCAGGACAAATCTGATGACCTGACCTGTAAGAGC
CAGCGGCTGATGCTGCAGGTGGGCCTGATCTACCCAGCAAGCCCCGGCTGTTACCACCTCCTGCCATATA
CCGTCCGTGCCATGGAGAAGCTCGTGCGAGTGATAGACCAGGAGATGCAGGCCATCGGGGGCCAGAAAGT
CAACATGCCCAGCCTCAGCCCGGCAGAGCTCTGGCAAGCCACCAACCGGTGGGACTTGATGGGCAAAGAG
CTGCTAAGACTTAGAGACAGGCATGGCAAGGAATACTGCTTAGGACCAACTCACGAGGAAGCCATTACGG
CCTTAATTGCCTCCCAGAAGAAACTGTCCTACAAGCAGCTTCCCTTCCTGCTGTACCAAGTGACAAGGAA
GTTTCGGGATGAGCCCAGGCCCCGCTTTGGTCTTCTCCGTGGCCGAGAGTTTTACATGAAGGATATGTAC
ACCTTTGACTCCTCCCCAGAGGCTGCCCAGCAGACCTACAGCCTGGTGTGTGATGCCTACTGCAGCCTGT
TCAACAAGCTAGGGCTGCCATTTGTCAAGGTCCAGGCCGATGTGGGCACCATCGGGGGCACAGTGTCTCA
TGAGTTCCAGCTCCCAGTGGATATTGGAGAGGACCGGCTTGCCATCTGTCCCCGCTGCAGCTTCTCAGCC
AACATGGAGACACTAGACTTGTCACAAATGAACTGCCCTGCTTGCCAGGGCCCATTGACTAAAACCAAAG
GCATTGAGGTGGGGCACACATTTTACCTGGGTACCAAGTACTCATCCATTTTCAATGCCCAGTTTACCAA
TGTCTGTGGCAAACCAACCCTGGCTGAAATGGGGTGCTATGGCTTGGGTGTGACACGGATCTTGGCTGCT
GCCATTGAAGTCCTCTCTACAGAAGACTGTGTCCGCTGGCCCAGCCTACTGGCCCCTTACCAAGCCTGCC
TCATCCCCCCTAAGAAGGGCAGTAAGGAGCAGGCGGCCTCCGAGCTCATAGGGCAGCTGTACGACCACAT
CACAGAGGCAGTGCCTCAGCTTCACGGGGAGGTGCTCCTGGACGACAGGACCCATCTGACCATCGGAAAC
AGACTGAAAGATGCCAACAAGTTTGGCTACCCCTTTGTGATAATCGCTGGCAAGAGGGCCCTGGAGGACC
CTGCACATTTTGAGGTTTGGTGTCAGAACACTGGTGAGGTGGCCTTCCTCACCAAAGATGGAGTCATGGA
TTTACTGACCCCAGTGCAGACTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

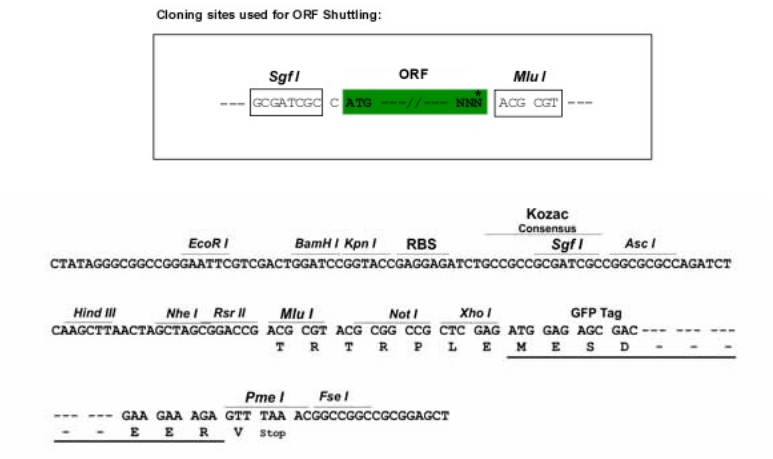
>RG203961 representing NM_152268
Red=Cloning site Green=Tags(s)

MEGLLTRCRALPALATCSRQLSGYVPCRFHHCAPRRGRRLLLSRVFQPQNLREDRVLSLQDKSDDLTCKS
QRLMLQVGLIYPASPGCYHLLPYTVRAMEKLVRVIDQEMQAIGGQKVNMPSLSPAELWQATNRWDLMGKE
LLRLRDRHGKEYCLGPTHEEAITALIASQKKLSYKQLPFLLYQVTRKFRDEPRPRFGLLRGREFYMKDMY
TFDSSPEAAQQTYSLVCDAYCSLFNKLGLPFVKVQADVGTIGGTVSHEFQLPVDIGEDRLAICPRCSFSA
NMETLDLSQMNCPACQGPLTKTKGIEVGHTFYLGTKYSSIFNAQFTNVCGKPTLAEMGCYGLGVTRILAA
AIEVLSTEDCVRWPSLLAPYQACLIPPKKGSKEQAASELIGQLYDHITEAVPQLHGEVLLDDRTHLTIGN
RLKDANKFGYPFVIIAGKRALEDPAHFEVWCQNTGEVAFLTKDGVMDLLTPVQTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



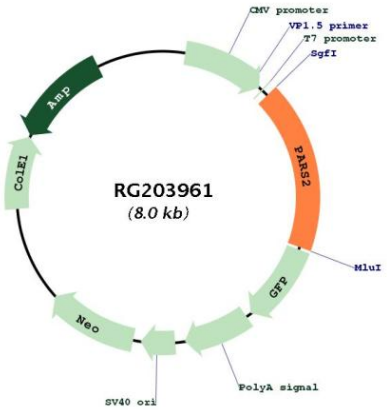
ACCN:	NM_152268
ORF Size:	1425 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_152268.4
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]

Product images:



Circular map for RG203961