

Product datasheet for **SC329223**

VAR2 (NM_001167733) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAR2 (NM_001167733) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAR2
Synonyms:	COXPD20; VALRS; VAR2L; VARSL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001167733, the custom clone sequence may differ by one or more nucleotides

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ATGTGTATCCCACCTCCCAATGTCACTGGCTCCCTGCACATTGGCCACGCACTCACGGTG
GCCATACAGGATGCCCTCGTGCGCTGGCACC GGATGCGTGGGGATCAAGTGTGTGGGTC
CCTGGTTCAGATCATGCAGGAATTGCTACACAAGCTGTGGTGGAGAAACAAGTGTGGAAG
GAACGGGGAGTGAGGAGACATGAGCTGAGCCGGGAGGCCCTTCTTAGGGAGGTGTGGCAG
TGAAGAGGCGAAAGGTGGAGAGATCTGTGAGCAGCTGCGAGCTGGGTGCCTCCCTG
GACTGGGATCGAGAGTGTTTTACCATGGATGTTGGCTCCTCAGTGGCTGTGACTGAAGCT
TTTGTGCGGCTCTACAAGCGGGGTTGCTGTACCGGAACCATCAGCTTGTCAACTGGTCA
TGTGCTTTAAGATCAGCCATCTCGGACATTGAGGTGGAGAACCGGCCCTGCCTGGCCAC
ACACAGCTTCGACTGCCTGGCTGCCCCACCCCGTGTCTTTTGGCTCCTATTTTCTGTT
GCCTTCCCGTGGATGGAGAGCCTGATGCAGAGGTTGTGGTAGGAACCACAAGGCCAGAG
ACGCTGCCTGGAGATGTGGCTGTGGCCGTTTATCCAGACGACTCGCGATACACACATCTA
CACGGGCGACAGCTTCGTCACCCCTTGATGGGGCAGCCTTCCCCTCATCAGACTAT
GCTGTTACAGCCACATGTGGGCACGGGGCAGTGAAGGTGACTCCAGCTCACAGTCTGCC
GATGCTGAGATGGGGGCCGACATGGCTTGAGCCCTTGAATGTATTGCGGAGGATGGG
ACCATGACCTCCCTCTGCGGGGACTGGCTGCAGGGTCTTACCGGTTTGTGGCCCGGAA
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GTACTGCCCATCTGCAGCCGTTCTGGGGATGTGATAGAATACCTGCTGAAGAACCAGTGG
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GACCATGCGCAGGGAGAAGAGGACTGTTGGTGGTTGGGCGTTCAGAGGCTGAGGCCAGA
GAGGTAGCAGCGAACTGACAGGGAGGCCAGGGCAGAGCTGACCCTGGAGAGGGATCCT
GATGTCCTAGACACATGTTTTCTTCTGCCCTGTTCCCTTTTCTGCCCTGGGCTGGCC
CAAGAGACCCAGACCTTCTCGTTTTTACCCCTGTCACTTTTGGAAACGGGCAGCGAC
CTTCTGTGTTCTGGGTGGGCGCATGGTGTGTTGGGACCCAGCTCACAGGGCAGCTG
CCCTTCAGCAAGGTGCTTCTTATCCCATGGTTCGGGACAGGCAGGGCCGGAAGATGAGC
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GCACAGAAAAAGGACTTTCCTCACGGGATCCCTGAGTGTGGGACAGATGCCCTGAGATTC
ACACTCTGCTCCCATGGAGTTCAGGCGGGCAGCTTGCACCTGTCACTCTCTGAGGTCCAG
AGCTGCCGACATTTCTGCAACAAGATCTGGAATGCTCTTCGCTTATCCTCAATGCTTTA
GGGGAGAAATTTGTGCCACAGCCTGCTGAGGAGCTGTCTCCCTCCTCCCGATGGATGCC
TGGATCCTGAGCCGCTTGCCTGGCTGCCCAGGAGTGTGAGCGGGGCTTCTCACCCGA
GAGCTCTCGCTCGTCACTCATGCCCTGCACCACTTCTGGCTTCAACAACCTCTGTGACGTC
TACCTGGAGGCTGTGAAGCCCGTGTGTGGCACTCGCCCCGCCCTGGGGCCCCCTCAG
GTCCTGTTCTCCTGCGCTGACCTCGCCCTCCGCTCCTGGCCCCACTGATGCCCTTCTG
GCTGAAGAGCTCTGGCAGAGGCTGCCCCAGGCTGGTTGCCCCCTGCCCCAGCATC
TCGGTTGCCCCCTACCCAGCGCCTGCAGCTTGAGCACTGGCGCCAGCCAGAGCTGGAG
CGGCGTCTCCTCCGGGTCGAAGAGTCTGTCAGGTGCTAAGGGCTCTCCGAGCCACGTAC
CAGCTCACAAAGCCCGGCCCGAGTGTGCTGCAGAGCTCAGAGCTGGGGACCAGGGC
CTCTTCGAGGCCCTTCTGGAGCCCTGGGCACCCTGGGCTACTGTGGGCTGTGGCCCTG
TTACCCAGGGCGCAGCAGCTCCCTCCGGCTGGGCCAGGCTCCACTCAGTGACACGGCT
CAAGTCTACATGGAGCTGCAGGGCCTGGTGGACCCGAGATCCAGCTACCTCTGTAGCC
GCCCGAAGGTACAAGTTGAGAAGCAGCTTGACAGCCTCACAGCCAGGACCCCATCAGAA
GGGGAGGCAGGGACTCAGAGGCAACAAAAGCTTCTTCCCTCCAGCTGGAATTGTCAAAA
CTGGACAAGGCAGCCTCTCACCTCCGGCAGCTGATGGATGAGCCTCCAGCCCAGGGAGC
CCGGAGCTCTAA

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Restriction Sites: Please inquire

ACCN:	NM_001167733
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:	<ol style="list-style-type: none"> 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_001167733.1</u> , <u>NP_001161205.1</u>
RefSeq Size:	3397 bp
RefSeq ORF:	2772 bp
Locus ID:	57176
UniProt ID:	<u>Q5ST30</u>
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis
Gene Summary:	<p>This gene encodes a mitochondrial aminoacyl-tRNA synthetase, which catalyzes the attachment of valine to tRNA(Val) for mitochondrial translation. Mutations in this gene cause combined oxidative phosphorylation deficiency-20, and are also associated with early-onset mitochondrial encephalopathies. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2014]</p> <p>Transcript Variant: This variant (3) contains alternate 5' exon structure, and it thus differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (3) is shorter at the N-terminus, compared to isoform 1.</p>