

Product datasheet for **SC329285**

VAR2 (NM_001167734) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: VAR2 (NM_001167734) Human Untagged Clone
Tag: Tag Free
Symbol: VAR2
Synonyms: COXPD20; VALRS; VAR2L; VARSL
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >NCBI ORF sequence for NM_001167734, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGGGAAGGCTTGGCCGCGCCGGGCTGTGGGCACTGCAGGAGGCCCTGTGCAGAA
CAGATCTCGGCCCTTTCCAAACTCCTGATGCCTCATTTCCTCTCGCCTCTTTTCGA
CCACCATTTTGGGGCTGAGGCACTCACGGGCCCTCCCCAGGTTTCACTCCGTTTCTACA
CAGTCGGAGCCCCATGGATCTCCCATCTCCCGGAGGAACCGTGAAGCCAAACAGAAGCGC
CTGCGAGAGAAGCAGGCGACTCTGGAGGCTGAGATAGCAGGGGAGAGCAAGTCACCTGCA
GAATCCATTAAGGCTGGAGGCCTAAGGAGTTAGTATTGTATGAAATCCCTACGAAACCC
GGTGAAAAGAAAGATGTCTCTGGGCCCTGCCTCCTGCATACAGCCCCGATATGTTGAG
GCTGCCTGGTACCGTGGTGGTACGAGAGGGCTTCTTCAAACAGAATATCAGGCCCGG
CTGCCCAAGCTACAGGGGAGACCTTTTCCATGTGTATCCACCTCCCAATGTCCTGGC
TCCTGCACATTGGCCACGCACTCACGGTGGCCATACAGGATGCCCTCGTGCCTGGCAC
CGGATGCGTGGGATCAAGTGCTGTGGTCCCTGGTTCAGATCATGCAGGAATTGCTACA
CAAGCTGTGGTGGAGAAACAAGTGTGGAAGGAACGGGGAGTGAGGAGACATGAGCTGAGC
CGGGAGGCCTTCTTAGGGAGGTGTGGCAGTGAAGGAGGCGAAAGGTGGAGAGATCTGT
GAGCAGCTGCGAGCTCTGGTGCCTCCCTGGACTGGGATCGAGAGTGTGTTTACCATGGAT
GTTGGCTCCTCAGTGGCTGTGACTGAAGCTTTTGTGCGGCTCTACAAGCGGGGTGCTG
TACCGGAACCATCAGCTTGTCAACTGGTCAATGTGCTTTAAGATCAGCCATCTCGGACATT
GAGGTGGAGAACCGGCCCTGCCTGGCCACACAGCTTCGACTGCCTGGCTGGCCACCC
CCCGTGTCTTTTGGCCTCCTATTTTCTGTTGCCTTCCCGTGGATGGAGAGCCTGATGCA
GAGGTTGTGGTAGGAACCAAGGCCAGAGACGCTGCCTGGAGATGTGGCTGTGGCCGTT
CATCCAGACGACTCGGATACACACATCTACACGGGCGACAGCTTCGTCACCCCTTGATG
GGGCAGCCTTCCCTCATCACAGACTATGCTGTTTACAGCCACATGTGGGCACGGGGCA
GTGAAGGTGACTCCAGCTCACAGTCTGCCGATGCTGAGATGGGGGCCGACATGGCTTG
AGCCCCTGAATGTCATTGCGGAGGATGGGACCATGACCTCCCTCTGCGGGGACTGGCTG
CAGGGTCTTACCAGTTTGTGGCCCGGAAAAGATAATGTCTGTGCTGAGTGAATGGGGC
CTGTTCCGGGCTCCAGAACCACCCATGGTACTGCCATCTGCAGCCGTTCTGGGGAT

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GTGATAGAATACCTGCTGAAGAACCAGTGGTTTGTCCGCTGCCAGGAAATGGGGGCCCGA
GCTGCCAAGGCTGTGGAGTCGGGGGCCCTGGAGCTCAGTCCCTCCTTCCACCAGAAGAAC
TGGCAGCACTGGTTTTCCCATATTGGGGACTGGTGTGTCTCCCGCAGCTGTGGTGGGGC
CATCAGATTCCAGCCTACCTGGTTGTAGAGGACCATGCCAGGGAGAAGAGGACTGTTGG
GTGGTTGGGCGGTGAGAGGCTGAGGCCAGAGAGGTAGCAGCGGAACTGACAGGGAGGCCA
GGGGCAGAGCTGACCCTGGAGAGGGATCCTGATGTCCTAGACACATGGTTTTCTTGTCC
CTGTTCCCTTTTTCTGCCCTGGGCTGGCCCAAGAGACCCAGACCTTGCCTCGTTTCTAC
CCCTGTCACTTTTGAAACGGGCAGCGACCTTCTGCTGTTCTGGGTGGGCCGCATGGTC
ATGTTGGGGACCCAGCTCACAGGGCAGCTGCCCTTCAGCAAGGTGCTTCTTCATCCCATG
GTTCCGGGACAGGCAGGGCCGGAAGATGAGCAAGTCCCTGGGGAATGTGCTGGACCAAGA
GACATCATCAGTGGGGTGGAGATGCAGGTGCTGCAGGAAAAGCTGAGAAGCGGAAATTTG
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CCTGAGTGTGGGACAGATGCCCTGAGATTCACACTCTGCTCCCATGGAGTTCAGGCGGGC
GACTTGCACCTGTCACTCTGAGGTCCAGAGCTGCCGACATTTCTGCAACAAGATCTGG
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GAGCTGTCTCCCTCCTCCCGATGGATGCCTGGATCCTGAGCCGCTTGCCTGGCTGCC
CAGGAGTGTGAGCGGGGCTTCTCACCCGAGAGCTCTCGCTCGTCACTCATGCCCTGCAC
CACTTCTGGCTTCAACCTCTGTGACGTCTACCTGGAGGCTGTGAAGCCCGTGTGTGG
CACTCGCCCCGCCCTGGGGCCCCCTCAGGTCCTGTTCTCCTGCGCTGACCTCGGCCTC
CGCCTCTGGCCCCACTGATGCCCTTCTGGCTGAAGAGCTCTGGCAGAGGCTGCCCCC
AGGCCTGGTTGCCCCCTGCCCCAGCATCTCGGTTGCCCCCTACCCAGCGCCTGCAGC
TTGGAGCACTGGCGCCAGCCAGAGCTGGAGCGGCGCTTCTCCCGGTCCAAGAGGTCGTG
CAGGTGCTAAGGGCTCTCCGAGCCAGTACCAGCTCACCAAAGCCCGGCCCGAGTGTG
CTGCAGAGCTCAGAGCCTGGGGACCAGGGCCTTTCGAGGCCTTCTGGAGCCCTGGGC
ACCCTGGGCTACTGTGGGCTGTGGCCTGTTACCCCCAGGCGCAGCAGCTCCCTCCGGC
TGGGCCAGGCTCCACTCAGTGACACGGCTCAAGTCTACATGGAGCTGCAGGGCCTGGT
GACCCGCAGATCCAGCTACCTCTGTTAGCCGCCGAAGGTACAAGTTGCAGAAGCAGCTT
GACAGCCTCACAGCCAGGACCCATCAGAAGGGGAGGCAGGGACTCAGAGGCAACAAAAG
CTTTCTCCCTCCAGCTGGAATTGTCAAACCTGGACAAGGCAGCCTCTCACCTCCGGCAG
CTGATGGATGAGCCTCCAGCCCCAGGGAGCCGGAGCTCTAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001167734
- 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_001167734.1</u> , <u>NP_001161206.1</u>
RefSeq Size:	3629 bp
RefSeq ORF:	3282 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 (1) represents the longest transcript and encodes the longest isoform (1).</p>