

## Product datasheet for **SC320144**

### Sarcosine Oxidase (PIPOX) (NM\_016518) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sarcosine Oxidase (PIPOX) (NM_016518) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sarcosine Oxidase
Synonyms:	LPIPOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_016518.2  
 GAGACAGGAAGGTGGCAAAGGAAGGAGCCCATTTGCATGACAATAATTGAGCCAAGAATA  
 GAAAGCCACAGGGATGCAAGGGTGAGGCTGGCGGCTGAGCTGGGCTAAACCTCACAAATC  
 AGACTACCCAGCTCTGCTCCGCAGGGGAAGGGAGACTGAGCCCTGGGCCAGGCTTGGCAG  
 AGAGGGAAAGCGGGAGGACACGCCAGGGCATTGTGGGAACACTGGCCAGGCTGGACTT  
 TGCCTTCTCTCGTCTTTAGCCGGGAGCCTGTCTTTGCTTGCCTTTGCCTTTGAGGCT  
 CTGTGGCTGTGGGCTGAGTGGCATCATGGCGGCTCAGAAAGATCTCTGGGACGCCATTG  
 TGATTGGGGCGGGATCCAGGGCTGCTTCACTGCATACCCACTGGCCAAACACAGGAAGA  
 GGATCCTCCTGCTGGAGCAGTTCTTTTACCACACTCCCAGGAAGCTCCCATGGACAAA  
 GCCGGATAATCCGAAAGGCGTACCTGGAAGACTTTTACACCCGGATGATGCATGAGTGT  
 ATCAGATATGGGCCAGCTGGAGCACGAGGCTGGAACCAATTGCACAGGCAGACTGGAT  
 TACTGCTGCTGGGAATGAAAGAGAATCAAGAATTAAGACAATCCAGGCCAATCTGTGCA  
 GGCAGAGGGTAGAACACCAGTGTCTTTCATCTGAGGAAGTGAAGCAACGTTTCCCAAATA  
 TTCGGTTGCCAGGGGAGAAGTGGGCTCTTGGACAATCCGGAGGAGTTATCTATGCAT  
 ATAAGGCCCTCAGAGCCCTGCAGGATGCAATTCGACAGCTAGGAGGCATAGTGCCTGACG  
 GAGAGAAGGTGGTGGAGATAAACCCAGGGCTACTGGTCACGGTAAAACACCTCCAGGA  
 GCTACCAAGCTAAGAGCTTGGTCATCACAGCAGGTCTTGGACCAACCAGCTCCTCCGTC  
 CCCTGGGCATTGAGATGCCTCTCCAGACCCTGCGGATCAACGTGTGTTACTGGCGAGAGA  
 TGGTTCCTGGGAGCTATGGTGTGTCCCAGGCCTTCCGTGCTTCTGTGGCTGGGCTTGT  
 GTCCCCACCACATCTACGGACTGCCACAGGAGTACCAGGGCTGATGAAGGTCAGCT  
 ATCACCACGGCAACCACGCAGACCCTGAGGAGCGGGACTGCCCCACAGCACGCACAGACA  
 TCGGAGAGCTCCAGATCCTGAGCAGCTTGTGACAGATCACTTACCTGATCTGAAGCCCG  
 AGCTGTGTCAATTGAGAGCTGCATGTACACGAATACCCCTGATGAGCAGTTCATTCTCG  
 ATCGCCACCCAAAGTATGACAACATTGTATTGGTGTGGATTCTCTGGGCACGGGTTCA  
 AGCTGGCCCTGTGGTGGGAAGATCCTGTATGAATTAAGCATGAAATTAACACCATCTT  
 ATGACTTGGCACCTTTTGAATCAGCCGTTTCCCAAGCCTGGGCAAAGCCACCTTTGAC  
 CTCTGGCCAGAAGCCTCCCTTCTGTGCACAGGAGCCAGTTTACAGATGGAGAAGATGTC  
 TCAGATGAAGGGAGTGTCCCTGAGATATCATCTTTTCTTCTGCCTCGCCTGAATCCCC  
 ATAACACCAGATGATTGAGTCTACCTTCTTCTTGGCCGCTCCCTTTTCTTCTGCC  
 TCACTTGAATCCCCGTAACACCAGACGATTGAGTCTACCTTCTTTTCTTGGCCACCTC  
 CCCATTACAACACTTTTCTCGCTCCAGAAAGTTGATCAGATATTCTACAATCACAGAG  
 TAGCAAGGACGTTTGGATGGGTATATCAGTAAGAAGAGGGCACAAAGAACTGGCTCTGGA  
 GACCAAAGCAGTTGTTAAAAATTCTTTTGTGGGGCCGGGTGTGGTGGCTCACACCTG  
 TAATCTCGGCACTTTGGGGGGCTGAGACAGGCGGATCACCTGAGGCCAGGAATCAAGAC  
 CAGCCTGGCCAACATGGTGAAACCCTATCTCCACTAAAAATACAAAATTAGCTGGGTGTG  
 GTGGCGCATGCCTGTAATCCCAGCTACTGGGAGACTGAGGCAAGAGAATCACTTGAACC  
 CGGGAGGTGGAGGTGGCAGTGTGAGCCGAGATTGCGCCATTGCACTCCAGCTGGGCAAAA  
 GAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_016518

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_016518.2</a></u> , <u><a href="#">NP_057602.2</a></u>
<b>RefSeq Size:</b>	2412 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	51268
<b>UniProt ID:</b>	<u><a href="#">Q9P0Z9</a></u>
<b>Cytogenetics:</b>	17q11.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycine, serine and threonine metabolism, Lysine degradation, Metabolic pathways
<b>Gene Summary:</b>	Metabolizes sarcosine, L-pipecolic acid and L-proline.[UniProtKB/Swiss-Prot Function]