

## Product datasheet for **SC115414**

### PHLDA3 (NM\_012396) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PHLDA3 (NM_012396) Human Untagged Clone
Tag:	Tag Free
Symbol:	PHLDA3
Synonyms:	TIH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115414 sequence for NM_012396 edited (data generated by NextGen Sequencing)

```
ATGACGGCGGCGGCGACGGCTACCGTGCTCAAGGAGGGCGTGCTGGAGAAGCGCAGCGGC
GGGCTGCTGCAGCTGTGGAAGCGGAAGCGCTGCGTCCTCACCGAACGCGGCTGCAGCTC
TTCGAGGCCAAGGGCACGGGCGGCCGCCCCAAGGAGCTCAGTTCCGCCGCATCAAGGCC
GTGGAGTGCGTGGAGAGCACCGGGCGCCACATCTACTTCACGCTGGTGACCGAAGGGGGC
GGCGAGATCGACTTCCGCTGCCCTGGAAGATCCCGGCTGGAACGCCCAGATCACCTA
GGCCTGGTCAAGTTCAAGAACCAGCAGGCCATCCAGACAGTGGGGCCCGGCAGAGCCTC
GGGACCGGGACCCTCGTGTCTTAA
```

Clone variation with respect to NM\_012396.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_012396 unedited AGTATTTTGTAAATACGACTTCACTATAGGGCGGCCGAATTCGCACCAGGAACATGTAA GGGCACATCCCGCGAGCTGCCGCCAGCGCGCAGACAGAGCCCAGGGGAGCAAGAGAACG GGCGGGCGGTGGGGCTCACGGCTAGGGAGGCGCGGAGGCATCTGGCAGAGGCGGGTCGG GCTGGGCCAGCTGGGGTAGAGCGGAGGAGCGGGTGCCGGCTGAAGCGGGCGGTGGGCGC GGAGCGCGTGGGGCACCGACACCACCTCACCGGCAGCCGGGTGCTGAGGGCCGCGGTG TGGGTGCGCGGAGCAGTCAGGGCGCAGGTGGGCAGCGCGCACGGCCTGCCAGCCCAGGGC GCCAGAATCCTGCGCTGCGGGCCGAGAGGGGCGCCGCGCCCGCCGAGCCTGGAGCTTT CCGCGAACCTCGGGCGCCCATGACGGCGCGGCGACGGCTACCGTGCTCAAGGAGGGCG TGCTGGAGAAGCGCAGCGCGGGCTGCTGCAGCTGTGGAAGCGGAAGCGTGCCTCTCA CCGAACCGGGCTGCAGCTCTTCGAGGCCAAGGGCACGGGCGGCCGCGCCCAAGGAGCTCA GCTTCGCCCGCATCAAGGCCGTGGAGTGCCTGGAGAGCACCGGGCGCCACATCTACTTCA CGCTGGTGACCGAAGGGGCGCGGAGATCGACTCCGCTGCCCTGGAAGATCCCGGT GGAACGCCAGATCACCTAGGCCTGGTCAAGTTCAAGAACCAGCAGGCCATCCAGACAG TGCGGGCCCGGCAGAGCCTCGGGACCGGGACCCTCGTGTCTAAACCACCGGGCGCACCA TCTTTCCTTCATGCTACCCACCCTCAGTGCTGAGGTCAAGCAGCTTCTTTGTTCTCT TGGCTTGTTGGGGCACGGCTGTGCTCCATGTGGC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012396
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_012396.2</a> , <a href="#">NP_036528.1</a>
<b>RefSeq Size:</b>	1607 bp
<b>RefSeq ORF:</b>	384 bp
<b>Locus ID:</b>	23612
<b>UniProt ID:</b>	<a href="#">Q9Y5J5</a>
<b>Cytogenetics:</b>	1q32.1
<b>Domains:</b>	PH

**Gene Summary:**

p53/TP53-regulated repressor of Akt/AKT1 signaling. Represses AKT1 by preventing AKT1-binding to membrane lipids, thereby inhibiting AKT1 translocation to the cellular membrane and activation. Contributes to p53/TP53-dependent apoptosis by repressing AKT1 activity. Its direct transcription regulation by p53/TP53 may explain how p53/TP53 can negatively regulate AKT1. May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the functional protein. CCDS Note: This CCDS ID represents the protein described in PMID: 19203586 and is supported by BC014390.1. It should be noted this transcript is predicted to undergo nonsense-mediated mRNA decay (NMD). However, the protein is represented because it was detected endogenously in PMID: 19203586. It is likely that the majority of transcripts representing this variant will undergo NMD, while some low level of NMD escape may allow for the expression of this protein.