

Product datasheet for **SC315175**

DIAPH2 (NM_007309) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DIAPH2 (NM_007309) Human Untagged Clone
Tag: Tag Free
Symbol: DIAPH2
Synonyms: DIA; DIA2; DRF2; POF; POF2; POF2A
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_007309, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCAGCCCGGGCGCGCGCTCGGGAGCGGGAGCGCGCAGCGAGGAACCCGGTGGG
GGCCGGAGCAACAAGCGGAGCGCGGGAACCGGGCCCAATGAAGAGGAAACGAAAAAC
AAACCCAAATTGAACATTCAAATAAAAACCTTTGGCAGATGATGTGCGTGACCGAATTACA
AGTTTTAGAAAATCTACTGTCAAAAAGAAAAACCTCTTATTCAACATCCTATTGATTCT
CAAGTCGCGATGAGTGAGTTTCTGCAGCTCAGCCATTATATGATGAACGATCCTTGAAT
TTGTCAGAAAAGGAAGTATTGGATCTCTTTGAAAAATGATGGAGGACATGAACCTTAAC
GAAGAGAAAAAGCTCCTTTACGAAACAAGACTTTACCACAAACGTGAGATGGTTGTC
CAGTATATTTCTGCCACTGCCAAATCTGGTGGGCTGAAAAACAGCAAACATGAATGCACC
CTGTCTTCACAAGAATATGTTTCATGAATTACGATCGGGTATATCAGATGAGAAACTTCTT
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TTTGGCCATGAAGGTCTTGGACTCTTATTGGATGAGCTGGAAAAGCTTCTGGACAAAAA
CAGCAAGAAAATATTGACAAGAAGAATCAGTATAAACTTATTCAATGCCTCAAAGCATT
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GCAAGAGCAATTGACCCCAACAACCAACATGATGACTGAAATAGTAAAAATACCTTCT
GCTATTTGCATTGTTGGAGAAGAGAACATTCTAGATAAACTTTTAGGGGCTATAACAACA
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TCAAAGAAGTTCCGATGAAGAATTCACAGCTCGACAGGAAGCTCAAGCAGAGCTTCAAAAA
AGAGATGAGAAAAATCAAAGAACTTGAAGCAGAAAATCCAGCAACTTCAAGCCAGGCACAA
GTACTCTCAAGTTCATCAGGAATCCAGGTCTCCTGCAGCACCTCCATTGCCAGGTGTA
GGGCCGCTCCACCACCACCGCCACCTCTACCGGAGGAGCTCCTCTTCTCTCTCA
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CCACCTCCTTTACCTGGAATGATGGGGATACCACCACCACCCACCACCACCTTTTATTT
GGGGGACCTCCTCCACCACCACCCCTTGGAGGAGTTCTCCTCCCCCAGGAATATCACTT
AATCTACCTTATGGAATGAAGCAGAAAAAATGTATAAACCTGAAGTGTCCATGAAGAGA
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AAAGAAGACAAGTTTGAAGATCCAGATCTTTTGCCTAATGGCATTGAATTTTGCTACT
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AAGAAAGTGAAAGAAGTGAAGATTTTGGATCCCAAAACAGCTCAGAATCTGTCCATCTTT
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CTCAACGAATTAGCAGAGCTTAAGAATGAATATGATGACCTCTGTGAGCCTGAACAATTT
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CTTTGTAAGATCAGAGATACTAAATCAGCGGATCAAAAAACAACCCTTTTGCATTTTATT
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CAACAAATTTGTCATCTGGAACGTGACATCAAGAAATTTCCCAAGCAGAAAAATCAACAC
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CTCTCCACCATGCACAACAACATGATGAAGCTCTATGAGAATCTTGGAGAATACTTCATT
TTTGACTCAAAGCAGTGAGCATAGAAGAGTTCTTTGGTGATCTCAACAACCTCCGAAGT
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AAACAACCTCATTGATATAAACAAGAGGGTGATGAGACTGGTGTGATGGATAATCTCTA
GAAGCCCTACAATCAGGTGCAGCATTGAGAGACCGTCAAGGCGATTCCAAGGAATCCA
GTGGTAAATCATCCCTGTGCAACAAGGGCTAATCCAAGATCAGCTACA

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- Restriction Sites:** Please inquire
- ACCN:** NM_007309
- 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:**
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_007309.1](#), [NP_009293.1](#)

RefSeq Size:	3753 bp
RefSeq ORF:	3291 bp
Locus ID:	1730
UniProt ID:	O60879
Cytogenetics:	Xq21.33
Domains:	FH2
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of actin cytoskeleton
Gene Summary:	<p>The product of this gene belongs to the diaphanous subfamily of the formin homology family of proteins. This gene may play a role in the development and normal function of the ovaries. Defects in this gene have been linked to premature ovarian failure 2. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (12C) differs in the 3' UTR and the 3' coding region, compared to variant 156. The resulting isoform (isoform 12C) contains a distinct C-terminus, compared to isoform 156.</p>