

## Product datasheet for **SC305556**

### FANCD2 (NM\_033084) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FANCD2 (NM_033084) Human Untagged Clone
Tag:	Tag Free
Symbol:	FANCD2
Synonyms:	FA-D2; FA4; FACD; FAD; FAD2; FANCD
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033084, the custom clone sequence may differ by one or more nucleotides

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 CAAATGCTTCTATGCCCATTTCCATTCCCTCCATAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_033084

<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>OTI Annotation:</b>	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>	<a href="#">NM_033084.3</a> , <a href="#">NP_149075.2</a>
<b>RefSeq Size:</b>	5204 bp
<b>RefSeq ORF:</b>	4416 bp
<b>Locus ID:</b>	2177
<b>UniProt ID:</b>	<a href="#">Q9BXW9</a>
<b>Cytogenetics:</b>	3p25.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCI (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The previously defined group FANCH is the same as FANCA. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity; they are related by their assembly into a common nuclear protein complex. This gene encodes the protein for complementation group D2. This protein is monoubiquitinated in response to DNA damage, resulting in its localization to nuclear foci with other proteins (BRCA1 AND BRCA2) involved in homology-directed DNA repair. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).</p>