

Product datasheet for **RC223476L4V**

FANCD2 (NM_033084) Human Tagged ORF Clone Lentiviral Particle

Product data:

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| Product Type: | Lentiviral Particles |
| Product Name: | FANCD2 (NM_033084) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | FANCD2 |
| Synonyms: | FA-D2; FA4; FACD; FAD; FAD2; FANCD |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_033084 |
| ORF Size: | 4413 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC223476). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_033084.3 |
| RefSeq Size: | 5204 bp |
| RefSeq ORF: | 4416 bp |
| Locus ID: | 2177 |
| UniProt ID: | Q9BXW9 |
| Cytogenetics: | 3p25.3 |
| Protein Families: | Druggable Genome |
| MW: | 166.3 kDa |



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Gene Summary:

The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (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]