

## Product datasheet for **SC308873**

### Girdin (CCDC88A) (NM\_018084) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Girdin (CCDC88A) (NM\_018084) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Girdin  
**Synonyms:** APE; GIRDIN; GIV; GRDN; HkRP1; KIAA1212; PEHO; PEHOL  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_018084, the custom clone sequence may differ by one or more nucleotides

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 GCATCTAATGTGGACAAAGTACAAGAAAGCAGAAATTCAAAAAGCAGGTCTAGGGAGCAA  
 CAAAGCTCCTAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_018084
- 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\\_018084.3](#), [NP\\_060554.3](#)
- RefSeq Size:** 9630 bp
- RefSeq ORF:** 5532 bp
- Locus ID:** 55704
- UniProt ID:** [Q3V6T2](#)
- Cytogenetics:** 2p16.1

**Gene Summary:**

This gene encodes a member of the Girdin family of coiled-coil domain containing proteins. The encoded protein is an actin-binding protein that is activated by the serine/threonine kinase Akt and plays a role in cytoskeleton remodeling and cell migration. The encoded protein also enhances Akt signaling by mediating phosphoinositide 3-kinase (PI3K)-dependent activation of Akt by growth factor receptor tyrosine kinases and G protein-coupled receptors. Increased expression of this gene and phosphorylation of the encoded protein may play a role in cancer metastasis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (2) uses an alternate splice site and lacks an exon in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.