

## Product datasheet for **SC312977**

### Dynamin 2 (DNM2) (AK094984) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamin 2 (DNM2) (AK094984) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNM2
Synonyms:	CMT2M; CMTDI1; CMTDIB; DI-CMTB; DYN2; DYNII; LCCS5
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AK094984, the custom clone sequence may differ by one or more nucleotides
Restriction Sites:	Please inquire
ACCN:	AK094984
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:	<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>
RefSeq:	<u>AK094984.1</u> , <u>BAG52966.1</u>
RefSeq Size:	2382 bp



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RefSeq ORF: 2382 bp

Locus ID: 1785

Cytogenetics: 19p13.2

Domains: PH

Protein Families: Transcription Factors

Protein Pathways: Endocytosis, Fc gamma R-mediated phagocytosis

**Gene Summary:** Dynamains represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynamains are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that accompany certain activities such as bone resorption by osteoclasts. Dynamains bind many proteins that bind actin and other cytoskeletal proteins. Dynamains can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined. [provided by RefSeq, Jun 2010]