

## LPIN2 gene

lipin 2

### Normal Function

The *LPIN2* gene provides instructions for producing a protein called lipin-2. Researchers believe that this protein may play a role in the processing of fats (lipid metabolism). It may also be involved in controlling inflammation and in cell division.

### Health Conditions Related to Genetic Changes

#### Majeed syndrome

At least three mutations in the *LPIN2* gene have been identified in people with Majeed syndrome. These mutations alter the structure and function of lipin-2, leading to chronic, abnormal inflammation in some of the body's tissues. It is unclear how *LPIN2* gene mutations lead to the specific features of Majeed syndrome, including bone disease, a shortage of red blood cells (anemia), and inflammatory skin disorders.

### Other Names for This Gene

- KIAA0249
- LPIN2\_HUMAN

### Additional Information & Resources

#### Tests Listed in the Genetic Testing Registry

- Tests of LPIN2 ([https://www.ncbi.nlm.nih.gov/gtr/all/tests/?term=9663\[geneid\]](https://www.ncbi.nlm.nih.gov/gtr/all/tests/?term=9663[geneid]))

#### Scientific Articles on PubMed

- PubMed (<https://pubmed.ncbi.nlm.nih.gov/?term=%28%28LPIN2%5BTIAB%5D%29+OR+%28lipin+2%5BTIAB%5D%29%29+OR+%28lipin-2%5BTIAB%5D%29+AND+english%5Bla%5D+AND+human%5Bmh%5D+AND+%22last+3600+days%22%5Bdp%5D>)

## Catalog of Genes and Diseases from OMIM

- LIPIN 2; LPIN2 (<https://omim.org/entry/605519>)

## Gene and Variant Databases

- NCBI Gene (<https://www.ncbi.nlm.nih.gov/gene/9663>)
- ClinVar ([https://www.ncbi.nlm.nih.gov/clinvar?term=LPIN2\[gene\]](https://www.ncbi.nlm.nih.gov/clinvar?term=LPIN2[gene]))

## **References**

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- Reue K, Zhang P. The lipin protein family: dual roles in lipid biosynthesis and gene expression. *FEBS Lett*. 2008 Jan 9;582(1):90-6. doi:10.1016/j.febslet.2007.11.014. Epub 2007 Nov 20. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/18023282>) or Free article on PubMed Central (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2848953/>)
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## **Genomic Location**

The *LPIN2* gene is found on chromosome 18 (<https://medlineplus.gov/genetics/chromosome/18/>).

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