

## ★ Myasthenia gravis (Chia, 2022)

Ruth Chia, et al.

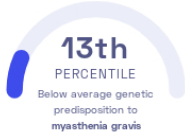
Proceedings of the National Academy of Sciences

Autoimmunity Muscles Eyes

### STUDY SUMMARY

This report is based on a study that discovered 6 genetic variants associated with myasthenia gravis.

#### YOUR RESULT



arthritis.

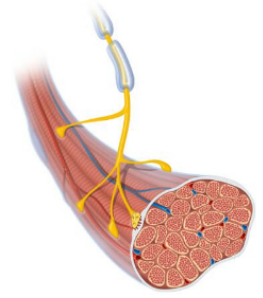
#### DID YOU KNOW?

Myasthenia gravis occurs about one and a half times more often in women than in men.

#### YOUR DETAILED RESULTS

To calculate your genetic predisposition to myasthenia gravis we summed up the effects of genetic variants that were linked to myasthenia gravis in the [study that this report is based on](#). These variants can be found in the table below. The variants highlighted in green have **positive effect sizes** and increase your genetic predisposition to myasthenia gravis. The variants highlighted in blue have **negative effect sizes** and decrease your genetic predisposition to myasthenia gravis. Variants that are not highlighted are not found in your genome and do not affect your genetic predisposition to myasthenia gravis. By adding up the effect sizes of the highlighted variants **we calculated your polygenic score for myasthenia gravis to be 0.24**. To determine whether your score is high or low, we compared it to the scores of 5,000 other Nebula Genomics users. We found that your polygenic score for myasthenia gravis is in the **13th percentile**. This means that it is higher than the polygenic scores 13% of people. We consider this to be a **below average genetic predisposition to myasthenia gravis**. However, please note that genetic predispositions do not account for important non-genetic factors like lifestyle. Furthermore, the genetics of most traits has not been fully understood yet and many associations between traits and genetic variants remain unknown. For additional explanations, click on the column titles in the table below and visit our [Nebula Library tutorial](#).

VARIANT <sup>Ⓞ</sup>	YOUR GENOTYPE <sup>Ⓞ</sup>	GENE <sup>Ⓞ</sup>	EFFECT SIZE <sup>Ⓞ</sup>	VARIANT FREQUENCY <sup>Ⓞ</sup>	SIGNIFICANCE <sup>Ⓞ</sup>
rs4574025_C <span>NEW</span>	T / T	TNFRSF11A	0.29 (-)	54%	$7.08 \times 10^{-16}$
rs2476601_A <span>NEW</span>	G / G	PTPN22	0.40 (-)	10%	$7.95 \times 10^{-11}$
rs4409785_C <span>NEW</span>	T / T	FAM76B	0.25 (-)	22%	$1.54 \times 10^{-8}$
rs2245669_G <span>NEW</span>	A / G	SFMBT2	0.24 (↑)	28%	$1.66 \times 10^{-8}$
rs35274388_A <span>NEW</span>	G / G	CHRNA1	0.45 (-)	6%	$3.07 \times 10^{-8}$



Nerves and muscles work together to produce movements.