



**unique**

UNDERSTANDING GENES  
& CHROMOSOMES

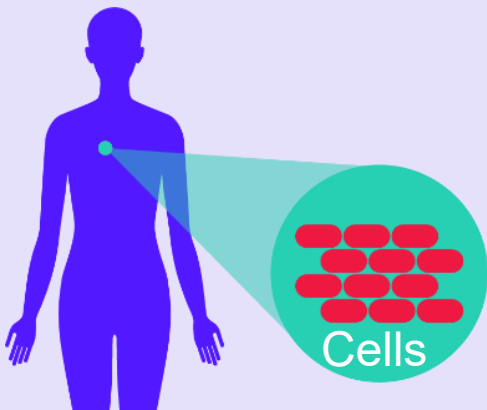
**Easy read guide**

**BBSOAS (Bosch-  
Boonstra-Schaaf optic  
atrophy syndrome)**

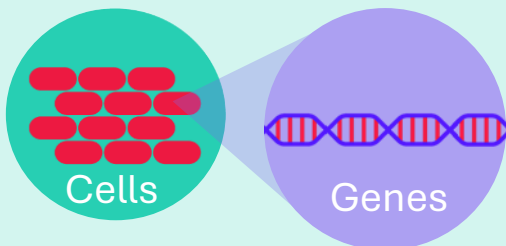
[rarechromo.org](http://rarechromo.org)



Before we learn about BBSOAS, first let us learn a little bit about our bodies.

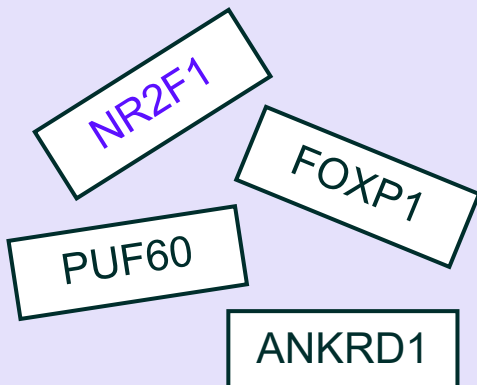


Our bodies are built from millions of tiny building blocks called cells.

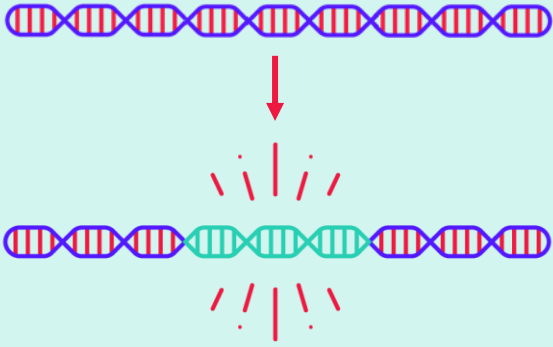


Our cells contain genes.

Genes are the instructions that tell our bodies how to grow and work.



We all have thousands of genes. Each gene has its own special name and function.



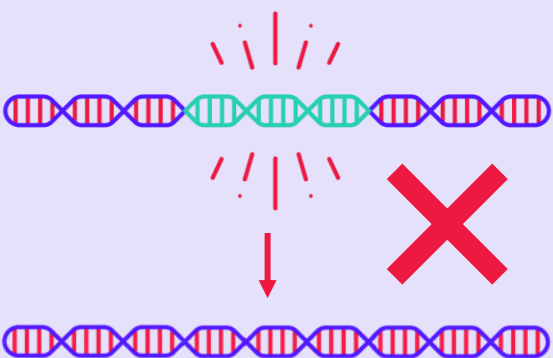
Sometimes we have a change in a gene.

## NR2F1

BBSOAS is caused by a change in a gene called NR2F1.



The change can affect how the gene works.



The change in the NR2F1 gene cannot be removed or replaced.



People with BBSOAS are all different from each other.



Some people BBSOAS find some things harder to do than other people with BBSOAS.



Some people find it difficult to learn how to read.



Some people find it difficult to learn how to speak.



Some people need help to understand things.



Some people feel a bit sad or worry a lot.

There is help for people who are sad and worry a lot.



Some people have eye problems or can't see very well without glasses.



People with BBSOAS can have different challenges and different strengths.



## Why do I have BBSOAS?

BBSOAS often happens by chance. Most people are the first person in their family to have it.



Some people have BBSOAS because their mum or dad have it.



If you have a child, they could have BBSOAS too.



## How do I know I have BBSOAS?

You can only find out if you have BBSOAS by having a genetic test.



It is good to know that you have BBSOAS so you can get extra help if you need it.



If you would like to know more about BBSOAS, you can talk to your doctor or a genetics specialist.



You can contact a BBSOAS support group.



You can contact or [join](#) a charity, like Unique.



**To find out more about Unique,  
you can call us on the phone.**

+44(0)1883 723356



**You can email us.**

help@rarechromo.org



**You can go to our website.**

<https://rarechromo.org/>



**You can send a letter to our office.**

The Stables, Station Road West,  
Oxted, Surrey, RH8 9EE, UK.



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*We are very grateful to The Ince Group Charitable Foundation for very kindly funding the research, writing and publication of this guide.*

This guide was written by Unique, with images from Photosymbols.

Thank you to Rachel Armstrong who assisted with reformatting this guide.

Version 1 [AP] 2024, Version 2 [NM] 2026

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Registered in England and Wales

Charity Number 1110661  
Company Number 5460413