

# RDS Beacon Tutorial server

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# About Beacon servers

<http://ga4gh.org/#/beacon>

A **beacon** is a simple web service that answers questions of the form:

"Do you have any genome with an 'A' at position 10735 on chromosome 3?"

The purpose: to share genetic data in the simplest of all technical contexts.

Beacon Network: <https://beacon-network.org/>

Search public beacon servers:

"Who has observed this allele?"

[The Reference Variant Store](#) holds information on more than **520 million** genetic variants.

# RDS Beacon tutorial

<http://rdsbeacon.genome.edu.au>

## RDS Life Sciences (Genomics) Project Beacon Tutorial

Query this beacon.

Position: hg19 genome assembly, 0-based.

Test dataset: autosomal variants from the 1000 genomes project, rel. 3

**Chromosome:**

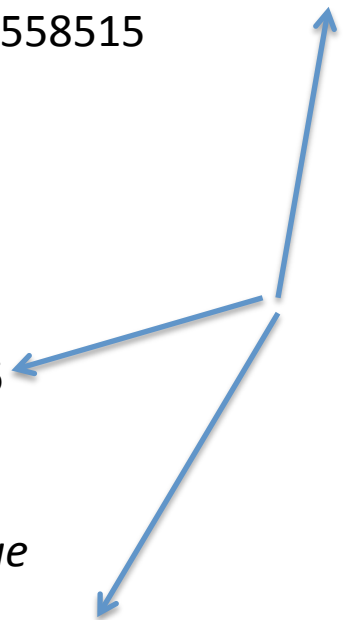
**Position:**

**Allele:**

[Create a Beacon server on NeCTAR](#)

Testing the server  
chromosome: chr2  
position (vcf file, 1-based): 5000177  
dbSNP ID: rs7558515  
refBase: G  
altBase: T

Query:  
chromosome: 2  
position: 5000176  
allele: T



should return: *True*

Note that VCF files use 1-based coordinates, while Beacon servers relay on 0-based coordinates.