

A la découverte des informations relatives au génome d'une espèce (*Homo sapiens*) Fiche technique

Aller sur le site <https://www.ncbi.nlm.nih.gov/genome/gdv/>

Switch view

Search organisms

Homo sapiens (human)

Taper Homo Sapiens dans le cadre

To view more organisms in the tree, click on nodes that have '+' signs. Press and hold the '+' to expand and reveal all the subgroups.
Or, search for an organism using the search box above.

New! Click on Switch view at the top to see another way of navigating genomes.

fruit fly
yeast
nematode
Aedes albopictus
human
chimpanzee
zebrafish
chicken
rat
mouse
Plasmodium falciparum 3D7
maize
rice
pig
cattle
sheep
Arabidopsis
grape
soybean
horse
dog

Homo sapiens (human)

Search in genome

Location, gene or phenotype

Examples: TP53, chr17:7667000-7689000, DNA repair

Assembly

GRCh38.p13

Browse genome

BLAST genome

Download via NCBI Datasets

Cliquer sur ce bouton pour ouvrir découvrir le génome

Assembly details

Name GRCh38.p13
RefSeq accession GCF_000001405.39
GenBank accession GCA_000001405.28
Submitter Genome Reference Consortium
Level Chromosome
Category Reference genome

Annotation details

Annotation Release 109
Release date Nov 22, 2020

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 X Y

Feedback

La fenêtre ci-dessous apparaît. Nous pouvons connaître :

- le caryotype d'un Homo sapiens
- le nombre de nucléotide sur les chromosomes

Genome Data Viewer
Homo sapiens (human)
Assembly: GRCh38.p13 (GCF_000001405.39) • Chr 7 (NC_000007.14)

Search assembly: Location, gene or phenotype

NC_000007.14: 1 - 159,345,973

Exon Navigator: There are too many (2782) genes in the region. Please narrow the region to enable exon navigation.

Le nombre de gène sur le chromosom

Le nombre de chromosome pour Homo sapiens (Attention, 1 seul chromosome de chaque paire est représenté). Sélectionner le chromosome 7.

Gene Name	Location
TAS2R38	Chr7: 141,972,631 - 141,973,773
CD36	Chr7: 80,602,207 - 80,679,277
GLP1R	Chr6: 39,048,781 - 39,091,303
CA6	Chr1: 8,945,868 - 8,975,092
TAS1R2	Chr1: 18,839,599 - 18,859,660
TAS2R16	Chr7: 122,994,704 - 122,995,700
TAS2R43	Chr12: 11,091,287 - 11,092,313
TAS2R43	NW_003571050.1: 290K - 291K

1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16 17 18 19 20 21 22 X Y MT

NC_000007.14: 1..159M (159,345,973 nt)

1 Cet outil permet de connaître de découvrir un gène en particulier.

Genome Data Viewer

Homo sapiens (human)

Assembly: GRCh38.p13 (GCF_000001405.39) • Chr 7 (NC_000007.14)

Search assembly: Examples

NC_000007.14: 141,972,517 - 141,973,887

Localisation au niveau du nombre total de nucléotide

Localisation du gène

Genes

Name	Location
TAS2R38	Chr7: 141,972,631 - 141,973,773
GLP1R	Chr6: 39,048,781 - 39,091,303
CA6	Chr1: 8,945,868 - 8,975,092
TAS1R2	Chr1: 18,839,599 - 18,859,660
TAS2R16	Chr7: 122,994,704 - 122,995,700
TAS2R43	Chr12: 11,091,287 - 11,092,313
TAS2R43	NW_003571050.1: 290K - 291K

Pick Assembly

Ideogram View

1 2 3 4 5 6 7 8 9 10 11 12 13

14 15 16 17 18 19 20 21 22 X Y MT

User Data and Track Hubs

BLAST

Add Tracks

Assembly Region Details

History

Region: TAS2R38 Transcript: NM_176817.5

NC_000007.14

NCBI Homo sapiens Updated Annotation Release 109.20201120 on GRCh38

NP_789787.5

Genes, Ensembl release 102

ENSG00000257138

rs10240959 | T/C rs1726886 | G/A

rs712596 | C/R/W/T

Cited Variations, dbSNP b154 v2

Live RefSNPs, dbSNP b154 v2

RNA-seq exon coverage, aggregate (filtered), NCBI Homo sapiens Annotation Release 109 - log base 2 scaled

RNA-seq intron-spanning reads, aggregate (filtered), NCBI Homo sapiens Annotation Release 109 - log base 2 scaled

RNA-seq intron features, aggregate (filtered), NCBI Homo sapiens A...

NC_000007.14: 142M..142M (1,371 nt)

Tracks shown: 8/800

3

Cliquer sur détails.
Une nouvelle fenêtre s'ouvre

Gene: TAS2R38
Location: Chr7: 141,972,631 - 141,973,773
Description: taste 2 receptor member 38
Also known as: PTC T2R38 T2R61 TH1OT
Summary: This gene encodes a seven-transmembrane G protein-coupled receptor that controls the ability to taste glucosinolates, a family of bitter-tasting compounds found in plants of the Brassica sp. Synthetic compounds phenylthi...

Sur la page qui s'ouvre, une multitude d'informations s'affiche, compréhensible par des post-doc. Lire les particularités de ce gène . Puis cliquer sur NCBI reference sequences.

TAS2R38 taste 2 receptor member 38 [*Homo sapiens* (human)]

Gene ID: 5726, updated on 29-Nov-2020

Summary

Official Symbol TAS2R38 provided by HGNC
Official Full Name taste 2 receptor member 38 provided by HGNC
Primary source HGNC:HGNC:9584
See related [Ensembl:ENSG00000257138](#) [MIM:607751](#)
Gene type protein coding
RefSeq status REVIEWED
Organism [Homo sapiens](#)
Lineage Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorhini; Catarrhini; Hominidae; Homo
Also known as PTC; T2R38; T2R61; TH1OT

Summary This gene encodes a seven-transmembrane G protein-coupled receptor that controls the ability to taste glucosinolates, a family of bitter-tasting compounds found in plants of the Brassica sp. Synthetic compounds phenylthiocarbamide (PTC) and 6-n-propylthiouracil (PROP) have been identified as ligands for this receptor and have been used to test the genetic diversity of this gene. Although several allelic forms of this gene have been identified worldwide, there are two predominant common forms (taster and non-taster) found outside of Africa. These alleles differ at three nucleotide positions resulting in amino acid changes in the protein (A49P, A262V, and V296I) with the amino acid combination PAV identifying the taster variant (and AVI identifying the non-taster variant). [provided by RefSeq, Oct 2009]

Orthologs [mouse](#) [all](#)

- Table of contents
- Summary
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- General gene information
 - Markers, Homology, Gene Ontology
- General protein information
- NCBI Reference Sequences (RefSeq)**
- Related sequences
- Additional links
 - Locus-specific Databases

Genome Browsers

- Genome Data Viewer
- Variation Viewer (GRCh37.p13)
- Variation Viewer (GRCh38)

Cet onglet apparaît. Cliquer sur FASTA. Votre séquences complètes du gène TA S2R38 apparaît. Copier la séquence.

NCBI Reference Sequences (RefSeq)

RefSeqs maintained independently of Annotated Genomes

These reference sequences exist independently of genome builds. [Explain](#)

Genomic

1. **NG_016141.1 RefSeqGene**

Range	8001..8143
Download	GenBank FASTA Sequence Viewer/Genomic

mRNA and Protein(s)

1. **NM_176817.5 -- NP_789787.5 taste receptor type 2 member 38**

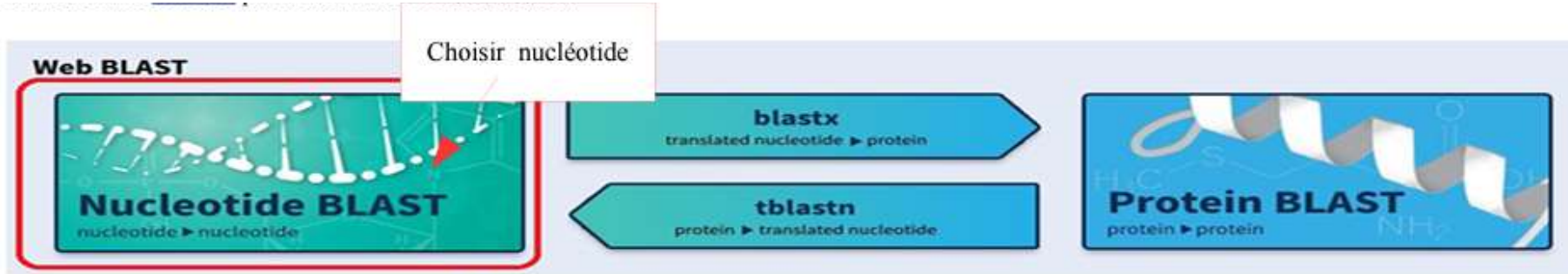
Status: REVIEWED

Source sequence(s)	CC073047
Consensus CDS	CCDS34765.1
Related	ENSP00000448219.1 ENST00000547272.1

Conserved Domains (1) [summary](#)

cd15025	7tm_TAS2R38; mammalian taste receptor 2, subtype 38, member of the seven-transmembrane G protein-coupled receptor superfamily
Location: 16 -- 309	

Ouvrir l'outil BLAST pour construire une phylogénie : <https://blast.ncbi.nlm.nih.gov/Blast.cgi>



Cette fenêtre s'ouvre :

1 Copier coller votre séquence nucléotidique du gène TA S2R38

blastn blasto blastx tblastn tblastx

BLASTN programs search nucleotide databases using a nucleotide query. [more...](#) [Reset page](#) [Bookmark](#)

Enter Query Sequence

Enter accession number(s), gi(s), or FASTA sequence(s) [Clear](#) [Query subrange](#)

From

To

Or, upload file [Parcourir...](#) Aucun fichier sélectionné. [+](#)

Job Title

Enter a descriptive title for your BLAST search [+](#)

Align two or more sequences [+](#)

Choose Search Set

Database Standard databases (nr etc.) rRNA/ITS databases Genomic + transcript databases Betacoronavirus

Nucleotide collection (nr/nt) [+](#)

Organism [+](#) exclude [+](#)

Enter organism common name, binomial, or tax id. Only 20 top taxa will be shown [+](#)

Exclude Models (XM/XP) Uncultured/environmental sample sequences

Limit to Sequences from type material

Entrez Query [You Tube](#) [Create custom database](#)

Enter an Entrez query to limit search [+](#)

Program Selection

Optimize for Highly similar sequences (megablast) More dissimilar sequences (discontiguous megablast) Somewhat similar sequences (blastn)

Choose a BLAST algorithm [+](#)

BLAST Search database Nucleotide collection (nr/nt) using Megablast (Optimize for highly similar sequences) Show results in a new window

New columns added to the Description Table [New](#)
Click 'Select Columns' or 'Manage Columns'.

Lancer la recherche

Cette fenêtre apparaît : toutes les séquences chez toutes les espèces qui sont proches de la séquence recherchée sont affichées. Le pourcentage de ressemblance est indiqué dans cette colonne. Cliquer sur « Distance tree of results » pour afficher l'arbre phylogénétique correspondant.

BLAST® » blastn suite » results for RID-ZGA3J37W016 Home Recent Results Saved Strategies Help

[← Edit Search](#) [Save Search](#) [Search Summary](#) ? How to read this report? [BLAST Help Videos](#) [Back to Traditional Results Page](#)

Job Title **Nucleotide Sequence**

RID [ZGA3J37W016](#) Search expires on 01-09 16:40 pm
[Download All](#) ▾

Program [BLASTN](#) [Citation](#) ▾

Database [nt](#) [See details](#) ▾

Query ID [lcl|Query_30955](#)

Description [None](#)

Molecule type [dna](#)

Query Length [44](#)

Other reports [Distance tree of results](#) [MSA viewer](#) [?](#)

Filter Results

Organism only top 20 will appear exclude

[+ Add organism](#)

Percent Identity to **E value** to **Query Coverage** to

[Filter](#) [Reset](#)

Cliquez sur Distance tree

Descriptions [Graphic Summary](#) [Alignments](#) [Taxonomy](#)

Sequences producing significant alignments Show [?](#)

select all 40 sequences selected [GenBank](#) [Graphics](#) [Distance tree of results](#) [New MSA Viewer](#)

	Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
<input checked="" type="checkbox"/>	PREDICTED: Pan paniscus taste 2 receptor member 38 (TAS2R38)_mRNA	Pan paniscus	78.7	78.7	95%	1e-11	100.00%	1131	XM_003813370.3
<input checked="" type="checkbox"/>	Homo sapiens taste 2 receptor member 38 (TAS2R38)_mRNA	Homo sapiens	78.7	78.7	95%	1e-11	100.00%	1143	NM_176817.5
<input checked="" type="checkbox"/>	Human ORFeome Gateway entry vector pENTR223-TAS2R38_complete_sequence	Human ORFeo...	78.7	78.7	95%	1e-11	100.00%	3789	LT743741.1
<input checked="" type="checkbox"/>	PREDICTED: Gorilla gorilla gorilla taste 2 receptor member 38 (TAS2R38)_mRNA	Gorilla gorilla gg...	78.7	78.7	95%	1e-11	100.00%	1131	XM_004046344.2
<input checked="" type="checkbox"/>	Synthetic construct Homo sapiens clone CCSBHm_00036375_TAS2R38 (TAS2R38) mRNA encodes co...	synthetic constr...	78.7	78.7	95%	1e-11	100.00%	1134	KR712168.1
<input checked="" type="checkbox"/>	Synthetic construct Homo sapiens clone CCSBHm_00036374_TAS2R38 (TAS2R38) mRNA encodes co...	synthetic constr...	78.7	78.7	95%	1e-11	100.00%	1134	KR712167.1

L'arbre affiché traduit la parenté entre les espèces pour le gène TA S2R38. Pour modifier l'affichage, cliquer sur « tools », « Layout », « slanted cladogram »

The image shows the BLAST web interface with a phylogenetic tree for the TAS2R38 gene. The tree is currently displayed in a standard rectangular cladogram format. A red box highlights the 'Tools' menu, which is open, and the 'Layout' sub-menu, which is also open. In the 'Layout' sub-menu, the 'Slanted Cladogram' option is selected, indicating the user's intention to change the tree's appearance. Other options in the 'Layout' menu include 'Rectangle Cladogram', 'Radial Tree', 'Circular Tree', 'Force layout', 'Use distance', and 'Midpoint root'. The tree itself shows a complex branching pattern with various species and sequences listed on the right side, including *Callicebus moloch*, *Macaca tonkeana*, *Homo sapiens*, and *Pan troglodytes*.