

GEPHE SUMMARY

	Gephebase Gene		GepheID
TRIP11 (=GMAP-210) (https://www.gephebase.org/search-criteria?/and+Gene Gephebase="TRIP11 (=GMAP-210)"#gephebase-summary-title)		GP00001138	
	Entry Status	Martin	Main curator
Published			

PHENOTYPIC CHANGE

	Trait Category		
Morphology (https://www.gephebase.org/search-criteria?/and+Trait Category="Morphology"#gephebase-summary-title)			
	Trait		
Body size (height) (https://www.gephebase.org/search-criteria?/and+Trait=Body size (height)"#gephebase-summary-title)			
	Trait State in Taxon A		
Homo sapiens			
	Trait State in Taxon B		
Homo sapiens			
	Ancestral State		
Data not curated			
	Taxonomic Status		
Intraspecific (https://www.gephebase.org/search-criteria?/and+Taxonomic Status="Intraspecific"#gephebase-summary-title)			
	Taxon A		Taxon B
	Latin Name		Latin Name
Homo sapiens (https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=Homo sapiens "#gephebase-summary-title)		Homo sapiens (https://www.gephebase.org/search-criteria?/and+Taxon and Synonyms=Homo sapiens "#gephebase-summary-title)	
	Common Name		Common Name
human		human	
	Synonyms		Synonyms
human; man; Homo sapiens Linnaeus, 1758; Home sapiens; Homo sampiens; Homo sapeins; Homo sapian; Homo sapians; Homo sapien; Homo sapience; Homo sapiense; Homo sapients; Homo sapines; Homo spaiens; Homo spiens; Humo sapiens		human; man; Homo sapiens Linnaeus, 1758; Home sapiens; Homo sampiens; Homo sapeins; Homo sapian; Homo sapians; Homo sapien; Homo sapience; Homo sapiense; Homo sapients; Homo sapines; Homo spaiens; Homo spiens; Humo sapiens	
	Rank		Rank
species		species	
	Lineage		Lineage
cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Dipnotetrapodomorpha; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Boreoeutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Hominoidea; Hominidae; Homininae; Homo		cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Dipnotetrapodomorpha; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Boreoeutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Hominoidea; Hominidae; Homininae; Homo	
	Parent		Parent
Homo () - (Rank: genus) (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9605)		Homo () - (Rank: genus) (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9605)	
	NCBI Taxonomy ID		NCBI Taxonomy ID
9606 (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9606)		9606 (https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=9606)	
	is Taxon A an Intraspecies?		is Taxon B an Intraspecies?
No		No	

GENOTYPIC CHANGE

	Generic Gene Name		UniProtKB Homo sapiens
TRIP11		Q15643 (http://www.uniprot.org/uniprot/Q15643)	
	Synonyms		GenebankID or UniProtKB
ACG1A; CEV14; GMAP210; TRIP-11; TRIP230; GMAP-210		AF011368 (https://www.ncbi.nlm.nih.gov/nucore/AF011368)	
	String		
9606.ENSPO0000267622 (http://string-db.org/newstring.cgi/show_network_section.pl?identifier=9606.ENSPO0000267622)			
	Sequence Similarities		
-			
	GO - Molecular Function		
GO:0003713 : transcription coactivator activity (https://www.ebi.ac.uk/QuickGO/term/GO:0003713)			
	GO - Biological Process		
GO:0006486 : protein glycosylation (https://www.ebi.ac.uk/QuickGO/term/GO:0006486)			

GO:0007030 : Golgi organization (<https://www.ebi.ac.uk/QuickGO/term/GO:0007030>)
GO:0006366 : transcription by RNA polymerase II (<https://www.ebi.ac.uk/QuickGO/term/GO:0006366>)
GO:0003281 : ventricular septum development (<https://www.ebi.ac.uk/QuickGO/term/GO:0003281>)
GO:0003413 : chondrocyte differentiation involved in endochondral bone morphogenesis (<https://www.ebi.ac.uk/QuickGO/term/GO:0003413>)
GO:0060122 : inner ear receptor cell stereocilium organization (<https://www.ebi.ac.uk/QuickGO/term/GO:0060122>)
GO:0035735 : intraciliary transport involved in cilium assembly (<https://www.ebi.ac.uk/QuickGO/term/GO:0035735>)

GO - Cellular Component

GO:0000139 : Golgi membrane (<https://www.ebi.ac.uk/QuickGO/term/GO:0000139>)
GO:0005634 : nucleus (<https://www.ebi.ac.uk/QuickGO/term/GO:0005634>)
GO:0005794 : Golgi apparatus (<https://www.ebi.ac.uk/QuickGO/term/GO:0005794>)
GO:0005856 : cytoskeleton (<https://www.ebi.ac.uk/QuickGO/term/GO:0005856>)
GO:0016607 : nuclear speck (<https://www.ebi.ac.uk/QuickGO/term/GO:0016607>)
GO:0005929 : cilium (<https://www.ebi.ac.uk/QuickGO/term/GO:0005929>)
GO:0005801 : cis-Golgi network (<https://www.ebi.ac.uk/QuickGO/term/GO:0005801>)
GO:0002079 : inner acrosomal membrane (<https://www.ebi.ac.uk/QuickGO/term/GO:0002079>)
GO:0002081 : outer acrosomal membrane (<https://www.ebi.ac.uk/QuickGO/term/GO:0002081>)
GO:0030133 : transport vesicle (<https://www.ebi.ac.uk/QuickGO/term/GO:0030133>)

	Presumptive Null
Unknown (https://www.gephebase.org/search-criteria?/and+Presumptive Null=^Unknown^#gephebase-summary-title)	
	Molecular Type
Unknown (https://www.gephebase.org/search-criteria?/and+Molecular Type=^Unknown^#gephebase-summary-title)	
	Aberration Type
Unknown (https://www.gephebase.org/search-criteria?/and+Aberration Type=^Unknown^#gephebase-summary-title)	
	Molecular Details of the Mutation
unknown	
	Experimental Evidence
Association Mapping (https://www.gephebase.org/search-criteria?/and+Experimental Evidence=^Association Mapping^#gephebase-summary-title)	
	Main Reference
Recent progress in the study of the genetics of height. (2011) (https://pubmed.ncbi.nlm.nih.gov/21340692)	
	Authors
Lettre G	
	Abstract
Adult height is a classic polygenic trait of high narrow-sense heritability ($h^2 = 0.8$). In the late nineteenth to early twentieth century, variation in adult height was used as a model to set the foundation of the fields of statistics and quantitative genetics. More recently, with our increasing knowledge concerning the extent of genetic variation in the human genome, human geneticists have used genome-wide association studies to identify hundreds of loci robustly associated with adult height, providing new insights into human growth and development, and into the architecture of complex human traits. In this review, I highlight the progress made in the last 2 years in understanding how genetic variation controls height variation in humans, including non-Caucasian populations and children.	
	Additional References

RELATED GEPHE

	Related Genes
23 (ADAMTS10, aggrecan, CREBRF, DC-STAMP domain containing 2 (DCST2), DYM, EIF2AK3, FTO, GDF5, GHSR, GPR133, Growth Hormone Receptor (GHR), HMGA2, Insulin-like growth factor receptor 1 (IGF1R), JAZF1, KCNQ1, LCORL, LIN28B, natriuretic peptide precursor type C (NPPC), natriuretic peptide receptor 3 (NPR3), Patched1 (Ptc1), PPAR-delta, SMAD family member 2 (SMAD2), stanniocalcin 2 (STC2)) (https://www.gephebase.org/search-criteria?/or+Taxon ID=^9606^/and+Trait=Body size/and+groupHaplotypes=true#gephebase-summary-title)	
	Related Haplotypes
No matches found.	

EXTERNAL LINKS

COMMENTS

