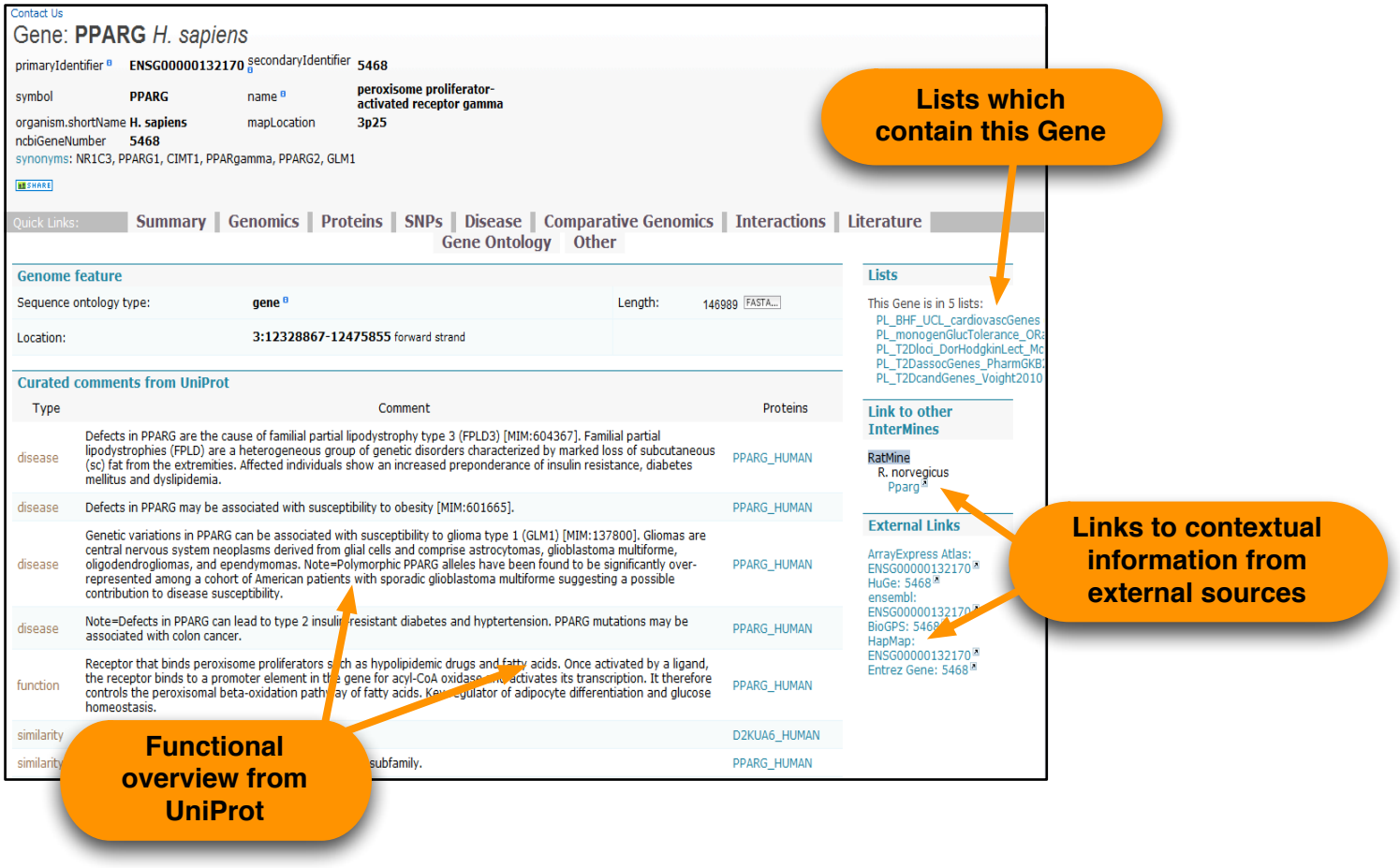
Contact Us
Gene: PPARG H. sapiens
primaryIdentifier ENSG00000132170 secondaryIdentifier 5468
symbol PPARG name peroxisome proliferator-activated receptor gamma
organism.shortName H. sapiens mapLocation 3p25
ncbiGeneNumber 5468
synonyms: NR1C3, PPARG1, CIMT1, PPARgamma, PPARG2, GLM1
SHARE
Quick Links: Summary | Genomics | Proteins | SNPs | Disease | Comparative Genomics | Interactions | Literature
Gene Ontology | Other
Genome feature
Sequence ontology type: gene
Length: 146989 FASTA...
Location: 3:12328867-12475855 forward strand
Curated comments from UniProt
Type
Comment
Proteins
disease
Defects in PPARG are the cause of familial partial lipodystrophy type 3 (FPLD3) [MIM:604367]. Familial partial lipodystrophies (FPLD) are a heterogeneous group of genetic disorders characterized by marked loss of subcutaneous (sc) fat from the extremities. Affected individuals show an increased preponderance of insulin resistance, diabetes mellitus and dyslipidemia.
PPARG_HUMAN
disease
Defects in PPARG may be associated with susceptibility to obesity [MIM:601665].
PPARG_HUMAN
disease
Genetic variations in PPARG can be associated with susceptibility to glioma type 1 (GLM1) [MIM:137800]. Gliomas are central nervous system neoplasms derived from glial cells and comprise astrocytomas, glioblastoma multiforme, oligodendrogliomas, and ependymomas. Note=Polymorphic PPARG alleles have been found to be significantly over-represented among a cohort of American patients with sporadic glioblastoma multiforme suggesting a possible contribution to disease susceptibility.
PPARG_HUMAN
disease
Note=Defects in PPARG can lead to type 2 insulin-resistant diabetes and hyptertension. PPARG mutations may be associated with colon cancer.
PPARG_HUMAN
function
Receptor that binds peroxisome proliferators such as hypolipidemic drugs and fatty acids. Once activated by a ligand, the receptor binds to a promoter element in the gene for acyl-CoA oxidase and activates its transcription. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis.
PPARG_HUMAN
similarity
D2KUA6_HUMAN
similarity
subfamily.
PPARG_HUMAN
Lists
This Gene is in 5 lists:
PL_BHF_UCL_cardiovascGenes
PL_monogenGlucTolerance_OR
PL_T2Dloci_DorHodgkinLect_Mc
PL_T2DassocGenes_PharmGKB
PL_T2DcandGenes_Voight2010
Link to other InterMines
RatMine
R. norvegicus
Pparg
External Links
ArrayExpress Atlas: ENSG00000132170
HuGe: 5468
ensembl: ENSG00000132170
BioGPS: 5468
HapMap: ENSG00000132170
Entrez Gene: 5468
Lists which contain this Gene
Links to contextual information from external sources
Functional overview from UniProt