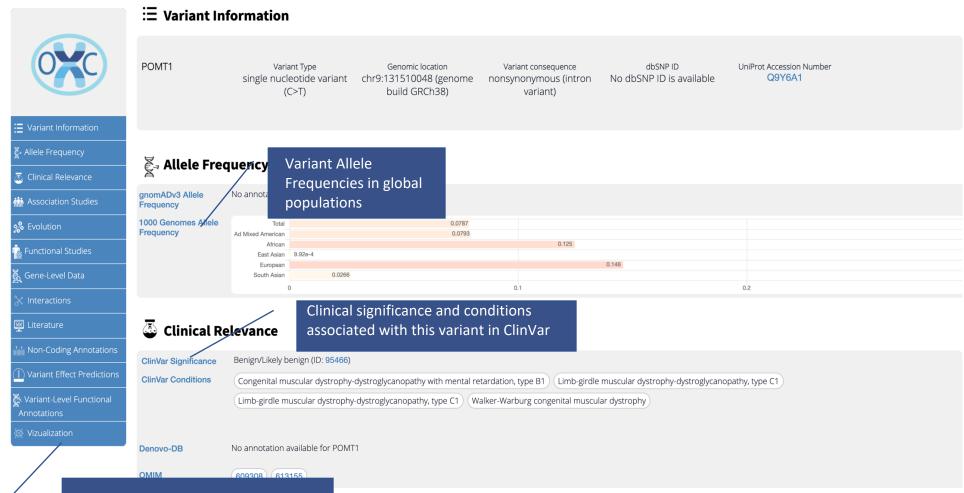


OpenCRAVAT Variant Report





Sidebar for navigation to all sections in the variant report



OpenCPAVAT Variant Paport Dropdown options for Cardiovascular and





ClinGen Gene

No annotation available for POMT1

Pharmacogenomics related annotations

Arrythmia Channelopathy Variants

No annotation available for POMT1

Cardiovascular Disease Knowledge **Portal**

IBS	CAD	ВМІ	Atrial Fibrillation	Type 2 Diabetes
1.61e-6	2.36e-7			

CardioBoost

No annotation available for POMT1



Click on the title to view information about *** Association Studie the annotation source and link out to their website.

Geuvadis eQTLs

No annotation available for POMT1

GWAS Catalog

No annotation available for POMT1

GRASP

Pval	Phenotype	NHLBI	PubMed
	Differential exon level expression of POMT1 [probe 3192180] in brain cortex	192223022345462	19222302

GTEx

ŀ	Target Gene	Tissue Type
	ENSG00000130714.11	Adipose Subcutaneous
	ENSG00000130714.11	Adipose Visceral_Omentum
	ENSG00000130714.11	Artery Aorta

% Evolution

Functional Studies

∀ariant Information

Allele Frequency

🙇 Clinical Relevance

*** Association Studies

Gene-Level Data

Literature

Variant Effect Predictions

X Variant-Level Functional

% Evolution

GERP++

GHIS

RVIS

ALoFT

LINSIGHT

Phast Cons

0.0932 rankscore -1.10 score

GERP++ Neutral Rate 2.20

∀ariant Information

Allele Frequency

Clinical Relevance

Association Studies

% Evolution

Functional Studies

Gene-Level Data

Literature

🔀 Variant-Level Functional

Vizualization

0.563

Score	Percentile Rank	ExAC-based RVIS	ExAC-based Percentile	FDR p-value
-0.300	-0.460	32.3	23.4	0.297

Transcript	Transcripts Affected	Tolerated Probability	Recessive Probability	Dominant Probability	Classification	Confidence
ENST00000372228	some	0.44185	0.5133	0.04485	Recessive	High Confidence

No annotation available for POMT1

Vertebrate 0.0639 rankscore



Conservation scores and rank scores, found in Phast Cons and PhyloP.

PhyloP



Vertebrate 0.119 rankscore



0.0139 rankscore



Primate 0.134 rankscore



₩ Variant Information

Allele Frequency

Clinical Relevance

Association Studies

% Evolution

Functional Studies

Gene-Level Data

Literature

Non-Coding Annotations

(1) Variant Effect Prediction:

Variant-Level Functional
Annotations

Vizualization

Functional Studies

MaveDB No annotation available for POMT1

This section explores gene level annotations including gene description from NCBI, scores from gnomAD gene, and more.

NCBI Gene

The protein encoded by this gene is an O-mannosyltransferase that requires interaction with the product of the POMT2 gene for enzymatic function. The encoded protein is found in the membrane of the endoplasmic reticulum. Defects in this gene are a cause of Walker-Warburg syndrome (WWS) and limb-girdle muscular dystrophy type 2K (LGMD2K). Several transcript variants encoding different isoforms have been found for this gene.

Essential Genes

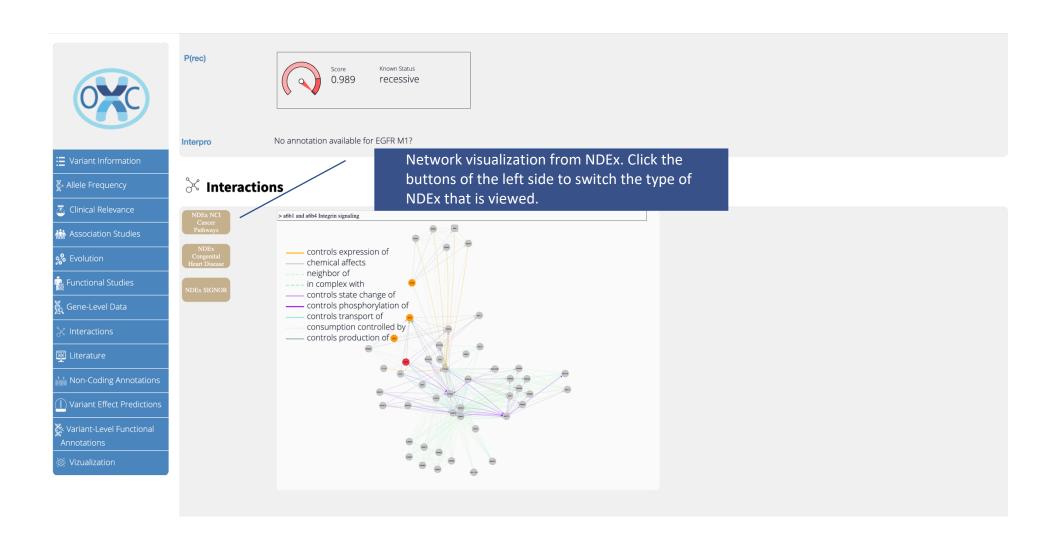
Essential	CRISPR	CRISPR2	Gene Trap	Indespensibility Score	Indespensibility Prediction
Essential	Non-essential phenotype-changing	Non-essential phenotype-changing	Non-essential phenotype-changing	0.473	Loss-of-function tolerant

gnomAD Gene

Transcript	Obv/Exp LoF	Obv/Exp Mis	Obv/Exp Syn	LoF Z-Score	Mis Z-Score	Syn Z-Score	pLl	pRec	pNull
ENST00000341012	0.71237	0.90461	1.0704	1.7396	0.67678	-0.70886	7.6698e-16	0.58851	0.41149
ENST00000354713	0.73499	0.89564	1.0941	1.655	0.7548	-0.96317	1.0178e-17	0.38789	0.61211
ENST00000372220	0.56598	0.88619	1.1278	1.8625	0.58517	-0.95165	0.00000387 87	0.95208	0.047914
ENST00000372228	0.71345	0.89738	1.0697	1.8163	0.7701	-0.73855	2.4725e-17	0.56752	0.43248
ENICTODODO 400 COC	0.00016	0.0017	1 0724	20124	077670	0.76021	7 41 20 - 16	0 00076	0.10024

Gene ontology

Biological Process	Cellular Component	Molecular Function
protein O-linked mannosylation		dolichyl-phosphate-mannose-protein mannosyltran sferase activity





Non-Coding Annotations



Non-Coding Annotations

This section includes information about non coding variants, including scores from Segway, GeneHancer target genes, and more.

Candidate
cis_Regulatory
Elements by ENCOD
(SCREEN)

ENCODE TFBS

GeneHancer

GeneHancer Type

Classification	CTCF Bound	cCRE Accession ID
pELS	Yes	EH38E1324288

	Information	

No annotation available for UBR4

👺 Allele Frequency

Enhancer

Clinical Relevance

 Target Gene
 Link Strength

 ENSG00000272084
 561.28

 EMC1
 30.99

 UBR4
 4.41

Association Studies

UBR4 4.41 LOC105376815 0.34

Section Evolution Functional Studies

No appetation available for I

Gene-Level Data

Promoter IR Regions No annotation available for UBR4

VISTA Enhancer

Browser

Build

No annotation available for UBR4

L- Non-Coding Annotations

Ensembl Regulatory

promoter_flanking_region

Variant Effect Predictions

ENSR00000920648

Variant-Level Functional

ENSH0000032004

Trinity CTAT RNA Editing Database

No annotation available for UBR4

Segway

Sum Score Mean Score 56.4 0.0176



Variant-Level Functional

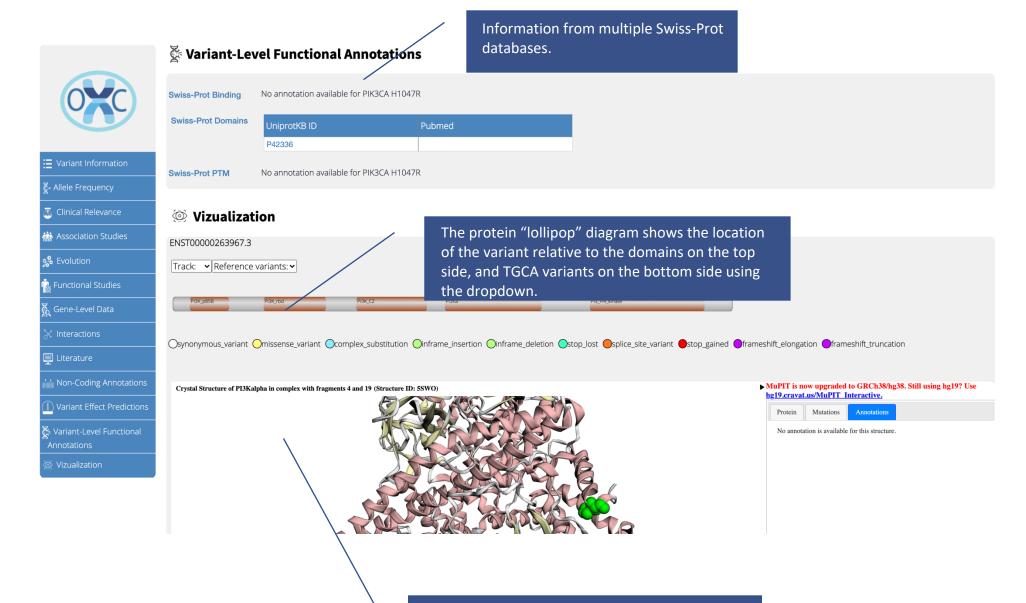


Compares damaging vs. tolerated predictions of the variant, from multiple annotations.



DANN		coding score 0.936	coding rankscore 0.235
FATHMM	No annotation available for EGFR M1?		
FATHMM MKL	prediction Damaging	coding score 0.708	coding rankscore 0.348
FATHMM XF	prediction Neutral	coding score 0.0141	coding rankscore 2.09e-3
LRT	prediction Neutral	coding score 0.129	coding rankscore 0.187
MetaLR	prediction Tolerated	coding score 0.272	rankscore 0.644
MetaSVM	prediction Tolerated	score -0.779	rankscore 0.564

Table that illustrates variant effect prediction, including a score, rank score, and prediction from many sources.



Mutation visualization on 3D protein structure with MuPIT. The options on the right side enable functional sites and TGCA variants.