

## Glykogenoser

Genpanel, versjon v01

\* Enkelte genomiske regioner har lav eller ingen sekvensdekning ved eksomsekvensering. Dette skyldes at de har stor likhet med andre områder i genomet, slik at spesifikk gjenkjennelse av disse områdene og påvisning av varianter i disse områdene, blir vanskelig og upålitelig. Disse genetiske regionene har vi identifisert ved å benytte USCS segmental duplication hvor områder større enn 1 kb og  $\geq 90\%$  likhet med andre regioner i genomet, gjenkjennes (<https://genome.ucsc.edu>).

Vi gjør oppmerksom på at ved identifisering av ekson oppstrøms for startkodon kan eksonnummereringen endres uten at transkript ID endres.

Avdelingens websider har en full oversikt over områder som er utelatt pga. [segmentale duplikasjoner](#).

\*\* Transkriptets kodende ekson.

Gen (HGNC symbol)	Gen (HGNC ID)	Transkript	Ekson ikke inkludert*	Ekson**	Fenotype
<a href="#">AGL</a>	<a href="#">321</a>	NM_000642.2		2-34	Glycogen debranching enzyme deficiency <a href="#">OMIM</a> Glycogen storage disease type 3; Cori-Forbes disease; limit dextrinosis <a href="#">OMIM</a>
<a href="#">ALDOA</a>	<a href="#">414</a>	NM_000034.3		7-14	Aldolase A deficiency <a href="#">OMIM</a> Glycogen storage disease+type 12 <a href="#">OMIM</a>
<a href="#">ENO3</a>	<a href="#">3354</a>	NM_053013.3		2-12	Enolase ? deficiency <a href="#">OMIM</a> Glycogen storage disease+type 13 <a href="#">OMIM</a>
<a href="#">G6PC</a>	<a href="#">4056</a>	NM_000151.3		1-5	Glucose-6-phosphatase deficiency <a href="#">OMIM</a> Glycogen storage disease type 1a <a href="#">OMIM</a>
<a href="#">GAA</a>	<a href="#">4065</a>	NM_000152.4		2-20	?-glucosidase deficiency <a href="#">OMIM</a> Glycogen storage disease type 2; Pompe disease <a href="#">OMIM</a>

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<a href="#">GBE1</a>	<a href="#">4180</a>	NM_000158.3		1-16	Glycogen branching enzyme deficiency <a href="#">OMIM</a> Glycogen storage disease type 4; Andersen disease; adult polyglucosan body disease <a href="#">OMIM</a>
<a href="#">GYG1</a>	<a href="#">4699</a>	NM_004130.3		1-8	Muscle glycogenin 1 deficiency <a href="#">OMIM</a> Glycogen storage disease type 15; polyglucosan body myopathy type 2 <a href="#">OMIM</a>
<a href="#">GYS1</a>	<a href="#">4706</a>	NM_002103.4		1-16	Muscle glycogen synthase deficiency <a href="#">OMIM</a> Glycogen storage disease type 0b <a href="#">OMIM</a>
<a href="#">GYS2</a>	<a href="#">4707</a>	NM_021957.3		1-16	Hepatic glycogen synthase deficiency <a href="#">OMIM</a> Glycogen storage disease type 0a <a href="#">OMIM</a>
<a href="#">LDHA</a>	<a href="#">6535</a>	NM_005566.3		2-8	Lactate dehydrogenase A deficiency <a href="#">OMIM</a> Glycogen storage disease+type 11 <a href="#">OMIM</a>
<a href="#">NHLRC1</a>	<a href="#">21576</a>	NM_198586.2		1	Malin deficiency <a href="#">OMIM</a> Progressive myoclonic epilepsy type 2B <a href="#">OMIM</a>
<a href="#">PFKM</a>	<a href="#">8877</a>	NM_000289.5		2-23	Muscle phosphofructokinase deficiency <a href="#">OMIM</a> Glycogen storage disease type 7; Tarui disease <a href="#">OMIM</a>
<a href="#">PGAM2</a>	<a href="#">8889</a>	NM_000290.3		1-3	Muscle phosphoglycerate mutase deficiency <a href="#">OMIM</a> Glycogen storage disease+type 10; DiMauro disease <a href="#">OMIM</a>
<a href="#">PGK1</a>	<a href="#">8896</a>	NM_000291.3		1-11	Phosphoglycerate kinase deficiency <a href="#">OMIM</a>
<a href="#">PHKA1</a>	<a href="#">8925</a>	NM_002637.3		1-32	Muscle phosphorylase kinase ?1 subunit deficiency <a href="#">OMIM</a> Glycogen storage disease type 9d <a href="#">OMIM</a>

Gen (HGNC symbol)	Gen (HGNC ID)	Transkript	Ekson ikke inkludert*	Ekson**	Fenotype
<a href="#">PHKA2</a>	<a href="#">8926</a>	NM_000292.2		1-33	Hepatic phosphorylase kinase ?2 subunit deficiency <a href="#">OMIM</a> Glycogen storage disease type 9a <a href="#">OMIM</a>
<a href="#">PHKB</a>	<a href="#">8927</a>	NM_000293.2		1-31	Phosphorylase kinase ? subunit deficiency <a href="#">OMIM</a> Glycogen storage disease type 9b <a href="#">OMIM</a>
<a href="#">PHKG2</a>	<a href="#">8931</a>	NM_000294.2		2-10	Hepatic phosphorylase kinase ?2 subunit deficiency <a href="#">OMIM</a> Glycogen storage disease type 9c <a href="#">OMIM</a>
<a href="#">PRKAG2</a>	<a href="#">9386</a>	NM_016203.3		1-16	Cardiac phosphorylase kinase deficiency <a href="#">OMIM</a>
<a href="#">PYGL</a>	<a href="#">9725</a>	NM_002863.4		1-20	Liver glycogen phosphorylase deficiency <a href="#">OMIM</a> Glycogen storage disease type 6; Hers disease <a href="#">OMIM</a>
<a href="#">PYGM</a>	<a href="#">9726</a>	NM_005609.3		1-20	Muscle glycogen phosphorylase deficiency <a href="#">OMIM</a> Glycogen storage disease type 5; McArdle disease <a href="#">OMIM</a>
<a href="#">RBCK1</a>	<a href="#">15864</a>	NM_031229.3		1-12	HOIL1 deficiency <a href="#">OMIM</a> Polyglucosan body myopathy type 1; HOIL deficiency <a href="#">OMIM</a>
<a href="#">SLC37A4</a>	<a href="#">4061</a>	NM_001164277.1		3-11	Glucose-6-phosphate transporter deficiency <a href="#">OMIM</a> Glycogen storage disease type 1b <a href="#">OMIM</a>