MAYO CLINIC LABORATORIES

Targeted Genes for Lysosome, Peroxisome, GSD Panels

Reference transcripts based on build GRCh37 (hg19) interrogated by Lysosome, Peroxisome, GSD Panels.

Lysosomal Storage Disease Panel	
Gene	**GenBank Accession Number**
ACP2	NM_001610.2
AGA	NM_000027.3
ARSA	NM_000487.5
ARSB	NM_000046.3
ARSH	NM_001011719.1
ASAH1	NM_004315.5
ATP13A2	NM_022089.3
CHIT1	NM_003465.2
CLN3	NM_000086.2
CLN5	NM_006493.2
CLN6	NM_017882.2
CLN8	NM_018941.3
CTNS	NM_001031681.2
CTSA	NM_000308.3
CTSD	NM_001909.4
CTSF	NM_003793.3
CTSK	NM_000396.3
DNAJC5	NM_025219.2
FUCA1	NM_000147.4
GAA	NM_000152.4
GALC	NM_000153.3
GALNS	NM_000512.4
GBA	NM_000157.3
GFAP	NM_002055.4
GLA	NM_000169.2
GLB1	NM_000404.3
GM2A	NM_000405.4
GNPTAB	NM_024312.4
GNPTG	NM_032520.4
GNS	NM_002076.3
GRN	NM_002087.3
GUSB	NM_000181.3
LAMP2	NM_002294.2
HEXA	NM_000520.5
HEXB	NM_000521.3
HGSNAT	NM_152419.2
HYAL1	NM_153281.1
IDS	NM_000202.7

Lysosomal Storage Disease Panel	
Gene	**GenBank Accession Number**
IDUA	NM_000203.4
KCTD7	NM_153033.4
LIPA	NM_000235.3
MAN2B1	NM_000528.3
MANBA	NM_005908.3
MCOLN1	NM_020533.2
MFSD8	NM_152778.2
NAGA	NM_000262.2
NAGLU	NM_000263.3
NEU1	NM_000434.3
NPC1	NM_000271.4
NPC2	NM_006432.3
PANK2	NM_153638.2
PSAP	NM_002778.3
PPT1	NM_000310.3
SGSH	NM_000199.4
SLC17A5	NM_012434.4
SMPD1	NM_000543.4
SUMF1	NM_182760.3
TPP1	NM_000391.3

Neuronal Ceroid Lipofuscinosis (Batten Disease) Panel	
Gene	**GenBank Accession Number**
ATP13A2	NM_022089.3
CLN3	NM_000086.2
CLN5	NM_006493.2
CLN6	NM_017882.2
CLN8	NM_018941.3
CTSD	NM_001909.4
CTSF	NM_003793.3
CTSK	NM_000396.3
DNAJC5	NM_025219.2
GRN	NM_002087.3
KCTD7	NM_153033.4
MFSD8	NM_152778.2
PANK2	NM_153638.2
PPT1	NM_000310.3
TPP1	NM_000391.3

Peroxisomal Disorder Panel	
Gene	**GenBank Accession Number**
ABCD1	NM_000033.3
ABCD2	NM_005164.3
ABCD3	NM_002858.3
ACOX1	NM_004035.6
ACOX3	NM_003501.2
AGPS	NM_003659.3
AMACR	NM_014324.5
CAT	NM_001752.3
DNM1L	NM_012062.4
ECH1	NM_001398.2
GNPAT	NM_014236.3
HSD17B4	NM_001199291.1
PEX1	NM_000466.2
PEX2	NM_000318.2
PEX3	NM_003630.2
PEX5	NM_001131023.1
PEX6	NM_000287.3
PEX7	NM_000288.3
PEX10	NM_153818.1
PEX11B	NM_003846.2
PEX12	NM_000286.2
PEX13	NM_002618.3
PEX14	NM_004565.2
PEX16	NM_057174.2
PEX19	NM_002857.3
PEX26	NM_017929.5
PHYH	NM_006214.3
SCP2	NM_002979.4
SUGCT	NM_001193311.1
TRIM37	NM_015294.4

Glycogen Storage Disease Panel	
Gene	**GenBank Accession Number**
AGL	NM_000642.2
ALDOA	NM_184043.2
ENO3	NM_001976.4
EPM2A	NM_005670.3
G6PC	NM_000151.3
GAA	NM_000152.4
GBE1	NM_000158.3
GYG1	NM_004130.3
GYS1	NM_002103.4
GYS2	NM_021957.3
LAMP2	NM_002294.2
LDHA	NM_005566.3
NHLRC1	NM_198586.2
PFKM	NM_000289.5
PGAM2	NM_000290.3
PGK1	NM_000291.3
PGM1	NM_002633.2
PHKA1	NM_002637.3
PHKA2	NM_000292.2
PHKB	NM_000293.2
PHKG2	NM_000294.2
PRKAG2	NM_016203.3
PYGL	NM_002863.4
PYGM	NM_005609.3
SLC2A2	NM_000340.1
SLC37A4	ENST00000545985.1