

**MOMA Exome Monogenic Obesity v1**  
**(2020-01-24), 52 genes**

Approved Symbol	Approved name	Transcript	included in MOMA Exome Endocrinology v3 genepanel	HGNC ID	Location
<a href="#">ADCY3</a>	adenylate cyclase 3	NM_004036.4		HGNC:234	2p23.3
<a href="#">AKR1C2</a>	aldo-keto reductase family 1 member C2	NM_001354.5		HGNC:385	10p15.1
<a href="#">ALMS1</a>	ALMS1 centrosome and basal body associated protein	NM_015120.4		HGNC:428	2p13.1
<a href="#">ARL6</a>	ADP ribosylation factor like GTPase 6	NM_177976.3	x	HGNC:13210	3q11.2
<a href="#">BBIP1</a>	BBSome interacting protein 1	NM_001195306.1		HGNC:28093	10q25.2
<a href="#">BBS1</a>	Bardet-Biedl syndrome 1	NM_024649.4	x	HGNC:966	11q13.2
<a href="#">BBS10</a>	Bardet-Biedl syndrome 10	NM_024685.3	x	HGNC:26291	12q21.2
<a href="#">BBS12</a>	Bardet-Biedl syndrome 12	NM_152618.2	x	HGNC:26648	4q27
<a href="#">BBS2</a>	Bardet-Biedl syndrome 2	NM_031885.3	x	HGNC:967	16q13
<a href="#">BBS4</a>	Bardet-Biedl syndrome 4	NM_033028.4	x	HGNC:969	15q24.1
<a href="#">BBS5</a>	Bardet-Biedl syndrome 5	NM_152384.2	x	HGNC:970	2q31.1
<a href="#">BBS7</a>	Bardet-Biedl syndrome 7	NM_176824.2	x	HGNC:18758	4q27
<a href="#">BBS9</a>	Bardet-Biedl syndrome 9	NM_198428.2	x	HGNC:30000	7p14.3
<a href="#">BDNF</a>	brain derived neurotrophic factor	NM_170735.5		HGNC:1033	11p14.1
<a href="#">CEP19</a>	centrosomal protein 19	NM_032898.4		HGNC:28209	3q29
<a href="#">CEP290</a>	centrosomal protein 290	NM_025114.3		HGNC:29021	12q21.32
<a href="#">CPE</a>	carboxypeptidase E	NM_001873.3		HGNC:2303	4q32.3
<a href="#">CUL4B</a>	cullin 4B	NM_003588.3		HGNC:2555	Xq24
<a href="#">DYRK1B</a>	dual specificity tyrosine phosphorylation regulated kinase 1B	NM_004714.2		HGNC:3092	19q13.2
<a href="#">GNAS</a>	GNAS complex locus	NM_000516.5	x	HGNC:4392	20q13.32
<a href="#">IFT27</a>	intraflagellar transport 27	NM_006860.4		HGNC:18626	22q12.3
<a href="#">INPP5E</a>	inositol polyphosphate-5-phosphatase E	NM_019892.5		HGNC:21474	9q34.3
<a href="#">KSR2</a>	kinase suppressor of ras 2	NM_173598.4		HGNC:18610	12q24.22-q24.23
<a href="#">LEP</a>	leptin	NM_00230.2	x	HGNC:6553	7q32.1
<a href="#">LEPR</a>	leptin receptor	NM_002303.5	x	HGNC:6554	1p31.3
<a href="#">LRP2</a>	LDL receptor related protein 2	NM_004525.2		HGNC:6694	2q31.1
<a href="#">LZTFL1</a>	leucine zipper transcription factor like 1	NM_020347.3		HGNC:6741	3p21.31
<a href="#">MAGEL2</a>	MAGE family member L2	NM_01966.4		HGNC:6814	15q11.2
<a href="#">MC3R</a>	melanocortin 3 receptor	NM_019888.3		HGNC:6931	20q13.2
<a href="#">MC4R</a>	melanocortin 4 receptor	NM_005912.2	x	HGNC:6932	18q21.32
<a href="#">MKKS</a>	McKusick-Kaufman syndrome	NM_018848.3	x	HGNC:7108	20p12.2
<a href="#">MKS1</a>	MKS transition zone complex subunit 1	NM_017777.3		HGNC:7121	17q22
<a href="#">MRAP2</a>	melanocortin 2 receptor accessory protein 2	NM_138409.3		HGNC:21232	6q14.2
<a href="#">MYT1L</a>	myelin transcription factor 1 like	NM_015025.3		HGNC:7623	2p25.3
<a href="#">NDN</a>	necdin, MAGE family member	NM_002487.2		HGNC:7675	15q11.2
<a href="#">NR0B2</a>	nuclear receptor subfamily 0 group B member 2	NM_021969.2		HGNC:7961	1p36.11
<a href="#">NTRK2</a>	neurotrophic receptor tyrosine kinase 2	NM_006180.4		HGNC:8032	9q21.33
<a href="#">PCSK1</a>	proprotein convertase subtilisin/kexin type 1	NM_000439.4	x	HGNC:8743	5q15
<a href="#">PHF6</a>	PHD finger protein 6	NM_032458.2		HGNC:18145	Xq26.2
<a href="#">PHIP</a>	pleckstrin homology domain interacting protein	NM_017934.6		HGNC:15673	6q14.1
<a href="#">POMC</a>	proopiomelanocortin	NM_001035256.2	x	HGNC:9201	2p23.3
<a href="#">PPARG</a>	peroxisome proliferator activated receptor gamma	NM_015869.4	x	HGNC:9236	3p25.2
<a href="#">SDCCAG8</a>	SHH signaling and ciliogenesis regulator SDCCAG8	NM_006642.4		HGNC:10671	1q43-q44
<a href="#">SH2B1</a>	SH2B adaptor protein 1	NM_001145795.1	x	HGNC:30417	16p11.2
<a href="#">SIM1</a>	SIM bHLH transcription factor 1	NM_005068.2		HGNC:10882	6q16.3
<a href="#">SNRPN</a>	small nuclear ribonucleoprotein polypeptide N	NM_003097.5		HGNC:11164	15q11.2
<a href="#">TRIM32</a>	tripartite motif containing 32	NM_012210.3	x	HGNC:16380	9q33.1
<a href="#">TTC8</a>	tetratricopeptide repeat domain 8	NM_198309.3	x	HGNC:20087	14q31.3
<a href="#">TUB</a>	TUB bipartite transcription factor	NM_003320.4		HGNC:12406	11p15.4
<a href="#">UCP3</a>	uncoupling protein 3	NM_003356.3		HGNC:12519	11q13.4
<a href="#">VPS13B</a>	vacuolar protein sorting 13 homolog B	NM_017890.4		HGNC:2183	8q22.2
<a href="#">WDPCP</a>	WD repeat containing planar cell polarity effector	NM_015910.6		HGNC:28027	2p15