

List of the 22 predicted obesity genes among the top 100 predicted gene list that overlap with the obesity genes collected from literature by Hancock *et al* [17].

Among the top 100 predicted obesity genes based on the functional linkage network (text mining data is excluded), 22 genes overlap with the obesity genes collected by Hancock *et al.* from literature [17]. These genes and the evidence supporting their association with obesity are listed below. The supporting evidences are based on table S3 of Hancock *et al.*'s paper [17].

Gene Symbol	Entrez Gene ID	Rank	Supporting evidence for association with obesity
EP3	5733	2	[2]
INSR	3643	3	[1] [5]
HTR2A	3356	11	[3] [8]
ALPHA1BAR	147	15	[1]
PYY	5697	18	[6]
PYY4	4852	20	[1] [3] [8]
RDC8	135	21	[2]
RXRB	6257	25	[2]
LOC654136	1131	31	[1][8]
NR3A1	2099	33	[2] [3] [12]
DRD4	1815	44	[3] [8]
MGC104991	3570	53	[3] [8]
CCKRA	886	55	[3] [8] [12]
HTR2C	3358	58	[1] [3] [8]
PPARGC1A	10891	64	[3] [16]
HRH1	3269	66	[1]
RHR	153	70	[1] [2] [3]
NPY1R	4886	75	[1] [6]
SLC1	2847	83	[1]
PPY	5539	84	[1]
RXRA	6256	89	[2]
HCRTR2	3062	94	[8]

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