

Aggregated Rankers using Different Methods for Thro

TABLE 1 Breast dataset

	Base Rankers			Borda				Markov Chain			Distribution-based		Bayesian	Weighted Rank Aggregation			
rank	TransBig	MDCC	Pusztai	MED	Mean	GEO	L2	MC1	MC2	MC3	Stuart	RRA	BIRRA	CEMC.s	CEMC.k	BiG	MM
1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	ESR1	BTG2	CD22	C9orf156	ESR1	ESR1
2	TBC1D9	TBC1D9	TBC1D9	TBC1D9	TBC1D9	TBC1D9	TBC1D9	FZD10	FZD10	FZD10	TBC1D9	TBC1D9	C1orf106	USP7	MUTYH	TBC1D9	TBC1D9
3	SCUBE2	EVL	SCUBE2	SCUBE2	SCUBE2	SCUBE2	SCUBE2	ZNF192	ZNF192	ZNF192	SCUBE2	SCUBE2	CIRBP	CUGBP2	SSR2	SCUBE2	SCUBE2
4	EVL	SCUBE2	FBP1	EVL	EVL	EVL	EVL	ZC3H7B	ZC3H7B	ZC3H7B	EVL	EVL	ESR1	WN17A	GJA8	EVL	EVL
5	NAT2	CIRBP	EVL	FBP1	FBP1	FBP1	FBP1	USP2	USP2	USP2	FBP1	FBP1	EVL	WDR46	XKR8	NAT2	FBP1
6	BTG2	FBP1	RHOB	CIRBP	CIRBP	CIRBP	CIRBP	FCER2	FCER2	FCER2	CIRBP	CIRBP	FBP1	SMR3A	ZYX	GSTM3	CIRBP
7	GSTM3	FUT8	QDPR	RHOB	BTG2	BTG2	BTG2	ERCC3	ERCC3	ERCC3	BTG2	BTG2	FUT8	KR176	NKIRAS2	BTG2	BTG2
8	FBP1	RHOB	CIRBP	BTG2	FUT8	FUT8	FUT8	OR2H2	OR2H2	OR2H2	FUT8	FUT8	SCUBE2	GCK	STAT6	CIRBP	FUT8
9	CIRBP	KIAA1324	IDUA	FUT8	C1orf106	RHOB	C1orf106	FBXW2	FBXW2	FBXW2	C1orf106	C1orf106	TBC1D9	MRPS18B	MAGEA5	FBP1	RHOB
10	ORC6L	BTG2	BTG2	QDPR	QDPR	C1orf106	QDPR	TULP1	TULP1	TULP1	RHOB	ADM	QDPR	APOC3	PRKAB1	ORC6L	C1orf106
11	BUB1	TBX3	FUT8	C1orf106	KIAA1324	QDPR	KIAA1324	GTIF2A2	GTIF2A2	GTIF2A2	QDPR	KIAA1324	YEATS2	THRAP3	AMPD2	BUB1	KIAA1324
12	FUT8	C1orf106	YEATS2	IDUA	YEATS2	KIAA1324	YEATS2	ZFP30	ZFP30	ZFP30	KIAA1324	YEATS2	MZF1	LGALS14	SAFB2	FUT8	TBX3
13	PCSK6	QDPR	BLOC1S1	PCSK6	RHOB	YEATS2	ADM	MC3R	MC3R	MC3R	YEATS2	QDPR	PCSK6	GMP5	TBC1D19	PCSK6	QDPR
14	PFKP	IDUA	C1orf106	PFKP	TBX3	TBX3	TBX3	ZFY	ZFY	ZFY	TBX3	CENPA	PFKP	TMPRSS11D	USP2	PFKP	IDUA
15	GPR126	PFKP	PCSK6	TBX3	ADM	GSTM3	MZF1	AFF4	AFF4	AFF4	ADM	TBX3	RHOB	CHKA	C11orf9	GPR126	YEATS2
16	C1orf106	ADM	KRT18	YEATS2	GSTM3	IDUA	CENPA	AIP1L1	AIP1L1	AIP1L1	PFKP	MZF1	TBX3	TESK1	SERPIND1	C1orf106	GSTM3
17	TBX3	MZF1	PECI	KRT18	MZF1	PFKP	GSTM3	C7orf43	C7orf43	C7orf43	GSTM3	GSTM3	ADM	DAB1	HIST1H3C	YEATS2	PCSK6
18	YEATS2	NDRG1	SLC7A8	MZF1	PFKP	PCSK6	RHOB	CAPZB	CAPZB	CAPZB	IDUA	BLOC1S1	KIAA1324	HERC1	TRIP13	TBX3	PFKP
19	MZF1	KRT18	FBXL7	KIAA1324	PCSK6	ADM	PFKP	GABRR1	GABRR1	GABRR1	PCSK6	NDRG1	GSTM3	EZH2	RFPL2	CENPA	ADM
20	CENPA	HCFC1R1	PRKAG1	PECI	CENPA	MZF1	PCSK6	SMPD2	SMPD2	SMPD2	MZF1	PFKP	CENPA	NCOR1	ADCYAP1R1	MZF1	MZF1
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900	C7orf43	CALR	NCAM2	ASXL2	ARHGEF11	ARHGEF11	MLLT1	GPR20	GPR20	GPR20	UTP6	NUP98	CAMK1	PPP1R8	GHRHR	PDE7B	TRPC3
901	ALDH3A1	MBD3	SETDB1	VAMP1	MLLT1	VAMP1	SETDB1	KATNB1	KATNB1	KATNB1	FBXL12	NR0B1	EPB42	SFMBT1	BMP10	NCK2	ZFY
902	AIP1L1	EPB42	ACTN3	BNIP3	MGAT4A	MGAT4A	MGAT4A	C8G	C8G	C8G	MGAT4A	SP110	AQP3	MAML1	SLC2A4	MYO5A	NR0B1
903	GABRR1	CAMK1	SFPQ	NUP98	VAMP1	MLLT1	VAMP1	SF3B4	SF3B4	SF3B4	NUP98	SMPD2	FBXL12	TBXAS1	CHRNA1	ZNF76	TULP1
904	AFF4	C5AR1	BBC3	CACNA1S	C7orf43	C7orf43	C7orf43	WDR46	WDR46	WDR46	CLK3	TBXAS1	FOXJ1	ARHGEF11	BTBD2	CHUK	SMPD2
905	ZFY	FOXJ1	HGFAC	HIST1H3C	NKIRAS2	SFMBT1	NKIRAS2	PCTK1	PCTK1	PCTK1	C7orf43	AQP3	MBD3	APOC3	AMT	RDH8	IRGC
906	MC3R	HSF4	HSF4	HGFAC	PSD	NKIRAS2	PSD	MMP25	MMP25	MMP25	APOA4	IRGC	HSF4	NKIRAS2	ARHGEF11	SACS	AFF4
907	ZFP30	UTP6	RASL11B	APOA4	SFMBT1	PSD	SFMBT1	MYL6	MYL6	MYL6	TBXAS1	VAMP1	UTP6	AQP3	GPATCH4	SS18L2	SP110
908	GTIF2A2	TRO	DTL	TRO	TBXAS1	TBXAS1	APOC3	EXOSC1	EXOSC1	EXOSC1	VAMP1	FBXL12	MEA1	C7orf43	KIAA1967	YTHDF2	GTIF2A2
909	TULP1	MEA1	CDC2L5	ITFG2	APOC3	APOC3	TBXAS1	HBXIP	HBXIP	HBXIP	NR0B1	UTP6	TRO	NR0B1	SUPT5H	DOC2B	ZFP30
910	FBXW2	SFMBT1	INTS7	ENO3	HIST1H2BB	HIST1H2BB	HIST1H2BB	PGLYRP4	PGLYRP4	PGLYRP4	IRGC	ERCC3	SFMBT1	APOA4	FAM64A	SIGLEC5	ZC3H7B
911	OR2H2	CLK3	C2orf42	C2orf42	SFRS4	SFRS4	SFRS4	PTRJ	PTRJ	PTRJ	ERCC3	C7orf43	CLK3	HIST1H2BB	MED12	FEM1B	FBXW2
912	ERCC3	GPR37L1	QPCTL	NR0B1	NR0B1	NR0B1	NR0B1	RND1	RND1	RND1	AQP3	MBD3	GPR37L1	MLLT1	HTR3B	SAFB	OR2H2
913	ZC3H7B	RPS6KB2	ASXL2	AQP3	AQP3	AQP3	AQP3	TACR2	TACR2	TACR2	MBD3	SETDB1	RPS6KB2	SFRS4	DBH	ZNF695	ZNF192
914	ZNF192	PSMD2	TNFRSF1A	HBZ	IRGC	IRGC	IRGC	RPL24	RPL24	RPL24	SETDB1	CLK3	PSMD2	PSD	NUFIP1	KCNN1	ERCC3
915	FCER2	HBZ	USP39	TNFRSF1A	MBD3	MBD3	MBD3	MUTYH	MUTYH	MUTYH	MAPRE3	MAPRE3	HBZ	IRGC	TAAR5	PTCD3	FCER2
916	USP2	SETDB1	NUP98	SETDB1	TRO	TRO	TRO	MYO15A	MYO15A	MYO15A	SFMBT1	TRO	SETDB1	MBD3	ATP13A1	MMP9	USP2
917	FZD10	MAPRE3	GALK2	HSF4	APOA4	APOA4	APOA4	BAP1	BAP1	BAP1	TRO	SFMBT1	MAPRE3	TRO	UTF1	FAM53C	FZD10

	SEMA5A	BACH1	BACH1	BACH1	SOCS1	ZNF537	SOCS1	BACH1	BACH1	SOCS1	ZNF537	ZNF537	FGF7	BACH1	CAB39	CARHSP1	CARHSP1
	OR1K1	FGF7	IKBKE	CARHSP1	FGF7	FGF7	CARHSP1	IKBKE	FGF7	FGF7	FGF7	SOCS1	CARHSP1	CARHSP1	AICDA	MAP3K14	SOCS1
	JARID2	ZNF652	ASTN2	RNF123	CARHSP1	ZIC3	FGF7	MGC13272	SOCS1	CARHSP1	SOCS1	FGF7	ZIC3	IKBKE	NDPIP1	CEBPB	FGF7
	JARID1B	FLJ30435	AKAP10	PAPOLA	ZIC3	CARHSP1	ZIC3	KBTBD2	RNF123	ZIC3	CARHSP1	CARHSP1	RNF123	FOS	RNF123	RNF123	ZIC3
	SGKL	RAB11FIP2	MGC13272	SOCS1	RNF123	RNF123	RNF123	COL7A1	ZIC3	RNF123	ZIC3	ZIC3	ZNF537	MLSTD2	BACH1	SMARCA4	CEBPB
	OPRM1	ZIC3	FBXO11	ZIC3	CEBPB	SOCS1	CEBPB	RAB34	CARHSP1	ZNF537	RNF123	CEBPB	CEBPB	MAP3K7IP2	ASTN2	ZIC3	RNF123
	RAPH1	MIDN	KBTBD2	ASTN2	MAP3K14	ASTN2	ZNF537	SALL1	CEBPB	CEBPB	CEBPB	RNF123	PAPOLA	KCNN3	ACTA1	SOCS1	ASTN2
	CLCN5	ARID2	COL7A1	FBXO11	SMARCA4	CEBPB	MAP3K14	SEMA5A	PAPOLA	MAP3K14	ASTN2	PAPOLA	ASTN2	MEIS1	SPI1	182-FIP	PAPOLA
	SPI1	PAPOLA	MAP3K10	MAP3K14	ZNF537	MAP3K14	PAPOLA	OR1K1	ASTN2	ASTN2	MAP3K14	SEMA5A	SGKL	ARL8	SPRED1	ACTA1	FBXO11
	TP53INP1	KIBRA	RNF123	FGF7	ASTN2	FBXO11	ASTN2	JARID2	FBXO11	PAPOLA	PAPOLA	SMARCA4	FBXO11	SOCS1	BCAP29	ADD3	MAP3K14
	STAC	PICALM	FLJ14299	CSNK1G2	PAPOLA	PAPOLA	FBXO11	JARID1B	MAP3K14	FBXO11	FBXO11	FBXO11	IKBKE	MAP3K14	FBXO11	STAC	AGTRAP
	CARHSP1	CAB39	SF3B1	SGKL	FBXO11	SGKL	SGKL	RAPH1	SGKL	SGKL	SEMA5A	OR1K1	TP53INP1	SEP11	SEP11	AICDA	TP53INP1
	PSKH1	CEBPB	KPNA1	CEBPB	SGKL	SEMA5A	CSNK1G2	STAC	CSNK1G2	CSNK1G2	SGKL	ASTN2	SPI1	JARID1B	TOMM20	AKAP10	SPI1
	MAP3K14	RNF123	CARHSP1	TP53INP1	CSNK1G2	SPI1	TP53INP1	PSKH1	KIBRA	TP53INP1	SMARCA4	MAP3K14	CSNK1G2	ENTH	JARID1B	ARID2	CSNK1G2
	HBP1	SOCS1	EHD1	KCNN3	TP53INP1	TP53INP1	SPI1	MGP	SMARCA4	SPI1	IKBKE	FBXO11	OR1K1	SMARCA4	WIT-1	ARL8	KCNN3
	AGTRAP	SOX10	PAPOLA	SPI1	SPI1	IKBKE	KCNN3	FGF7	TP53INP1	SMARCA4	OR1K1	JARID2	SEMA5A	SF3B1	FLJ14299	ARNTL	KIBRA
	KCNN3	SUFU	RAB34	CSF1R	KIBRA	OR1K1	KIBRA	ZNF652	SPI1	KIBRA	JARID2	ZNF652	KIBRA	FGF7	RAPH1	ARVCF	SEMA5A
	TRIM32	MAP3K7IP2	GCN5L2	KIBRA	KCNN3	KIBRA	MLSTD2	FLJ30435	MLSTD2	KCNN3	ZNF652	AKAP10	FLJ30435	SGKL	SGKL	ASTN2	IKBKE
	CSNK1G2	GPM6B	SOCS1	MLSTD2	MLSTD2	CSNK1G2	CSF1R	RAB11FIP2	KCNN3	MLSTD2	SPI1	FLJ30435	JARID1B	AGTRAP	PRO1855	AXOT	OR1K1
	SOCS1	MLR1	ZIC3	SMARCA4	CSF1R	JARID2	SMARCA4	ZIC3	C10orf26	LRP1B	TP53INP1	JARID1B	KIBRA	FBXO33	BCAP29	JARID2	JARID2
	CYR61	ASTN2	MLSTD2	RREB1	LRP1B	ZNF652	LRP1B	MIDN	CSF1R	EHD1	CSNK1G2	CSNK1G2	RAB11FIP2	CYR61	CSNK1G2	BIRC4	ZNF652
	DUSP14	FBXO11	SALL1	ETS1	EHD1	SMARCA4	C10orf26	ARID2	LRP1B	CSF1R	KIBRA	SGKL	ZNF652	SOX1	PAPOLA	C10orf26	AKAP10
	MGP	MAP3K14	ACTA1	LRP1B	C10orf26	AKAP10	RREB1	PAPOLA	EHD1	C10orf26	AKAP10	MGC13272	ARID2	SGCB	OR1K1	C1QL2	MLSTD2
	SLC11A2	C10orf26	LRP1B	C10orf26	RREB1	FLJ30435	SEMA5A	KIBRA	RREB1	RREB1	FLJ30435	RAB11FIP2	CLCN5	LOC51161	SUFU	C21orf107	FLJ30435
	FGF7	TOMM20	C1QL2	SIM2	OLFML3	JARID1B	OR1K1	PICALM	ETS1	SEMA5A	JARID1B	OPRM1	MIDN	ARNTL	SMARCA4	C3orf18	JARID1B
	PCDH9	C3orf18	LOC51161	FBXO33	ETS1	KCNN3	IKBKE	CAB39	OLFML3	OR1K1	MGC13272	KBTBD2	OPRM1	ZIC3	MGC13272	CAB39	MGC13272
	DHX40	TLE4	CSNK1G2	AICDA	FBXO33	MGC13272	JARID2	CEBPB	FBXO33	IKBKE	RAB11FIP2	MIDN	RAPH1	C1QL2	C1QL2	CARD11	RAB11FIP2
	KIAA0258	SGKL	FGF7	ETNK2	AICDA	RAB11FIP2	ZNF652	RNF123	AICDA	JARID2	KCNN3	RAPH1	KCNN3	MYO10	FGF7	CDC37	OPRM1
	CEBPB	BCAP29	ADD3	OLFML3	ETNK2	EHD1	JARID1B	SF3B1	SIM2	JARID1B	OPRM1	TP53INP1	PICALM	SEL1L	ZIC3	CHAF1A	KBTBD2
	GCET2	CARHSP1	MYB	EHD1	SIM2	MLSTD2	FLJ30435	KPNA1	ETNK2	ZNF652	KBTBD2	ARID2	STAC	ARID2	SYPL	CLCN5	MIDN
	ARL8	MYO1D	OLFML3	182-FIP	SEMA5A	OPRM1	AKAP10	SOCS1	ARID2	OLFML3	MIDN	CLCN5	IKBKE	COP53	AKAP10	COL7A1	RAPH1
	SEL1L	CSF1R	ARNTL	ACTA1	IKBKE	KBTBD2	RAB11FIP2	SOX10	MIDN	AKAP10	RAPH1	COL7A1	AKAP10	MEF2A	SEMA5A	COPS3	ARID2
	ZIC3	FLJ37543	COPS3	ADD3	OR1K1	MIDN	MGC13272	SUFU	RAB11FIP2	FLJ30435	MLSTD2	KCNN3	MGC13272	KPNA1	EIF2C4	CSF1R	COL7A1
	RREB1	SOX1	SMARCA4	AGTRAP	JARID2	RAPH1	OPRM1	MAP3K7IP2	FLJ30435	MGC13272	ARID2	SPI1	CAB39	SUFU	C10orf26	CSNK1G2	CLCN5
	MYPN	UPP2	SPRED1	AKAP10	ZNF652	LRP1B	RAPH1	GPM6B	ZNF652	OPRM1	CLCN5	CSF1R	PSKH1	FLJ14299	LRP1B	CUGBP2	MAP3K10
	RNF123	TP53INP1	CEBPB	ARID2	AKAP10	ARID2	MIDN	MLR1	PICALM	RAB11FIP2	COL7A1	MAP3K10	AGTRAP	SKI	KBTBD2	CYR61	PICALM
	C21orf107	MYO10	ARVCF	ARL8	FLJ30435	CLCN5	KBTBD2	ASTN2	CAB39	ETS1	CSF1R	KIBRA	HBP1	DNC1	PSKH1	DHX40	CSF1R
	STARD6	SPI1	KCNN3	ARNTL	JARID1B	COL7A1	CLCN5	AKAP10	SOX10	RAPH1	EHD1	MLSTD2	SOX10	CAB39	TRIM32	DNAJB1	FLJ14299
	CDC37	DNC1	CSF1R	ARVCF	MGC13272	C10orf26	ARID2	FBXO11	SUFU	CLCN5	MAP3K10	FLJ14299	COL7A1	GCN5L2	ZNF642	DNC1	STAC
	AICDA	PRO1855	ZNF642	AXOT	RAB11FIP2	CSF1R	COL7A1	MAP3K10	MAP3K10	KBTBD2	LRP1B	PICALM	KBTBD2	ZNF642	EHD1	DUSP14	LRP1B
	SATB2	LOC284058	KIBRA	BCAP29	OPRM1	MAP3K10	MAP3K10	FLJ14299	GPM6B	FBXO33	C10orf26	STAC	MLSTD2	SBFL	ENTH	EHD1	SMARCA4
	FBXO33	ETS1	YWHAE	BIRC4	KBTBD2	FLJ14299	EHD1	GCN5L2	MLR1	COL7A1	FLJ14299	CAB39	GPM6B	C21orf107	SF3B1	EIF2C4	CAB39
	RPS6KA3	MLSTD2	ETNK2	C1QL2	MIDN	PICALM	STAC	UBQLN1	IKBKE	MIDN	PICALM	SF3B1	MAP3K7IP2	UBQLN1	TLE4	ENTH	SF3B1
	FOS	GDF6	182-FIP	C21orf107	RAPH1	RREB1	PICALM	AXOT	MGC13272	AICDA	STAC	KPNA1	SUFU	EIF2C4	MYB	ETNK2	PSKH1
	BIRC4	KIAA1889	SEPT11	C3orf18	ARID2	STAC	FLJ14299	MAP3K14	AKAP10	MAP3K10	CAB39	PSKH1	TRIM32	RAPH1	SOX10	ETS1	C10orf26
	NKX3-1	SMARCA4	SCG2	CAB39	CLCN5	CAB39	CAB39	CYR61	C3orf18	ARID2	SF3B1	RREB1	FLJ14299	STARD6	GPM6B	FBXO11	KPNA1
	EIF2C4	RREB1	UBQLN1	CARD11	COL7A1	SF3B1	SF3B1	SLC11A2	TLE4	STAC	RREB1	ETS1	MAP3K10	FLJ20273	IKBKE	FBXO33	EHD1
	LRP1B	ZNF236	ETS1	CDC37	MAP3K10	OLFML3	PSKH1	PCDH9	TOMM20	FLJ14299	KPNA1	LRP1B	CYR61	SIM2	GDF6	FLJ14299	HBP1
	KIAA1411	DNAJB1	SIM2	CHAF1A	PICALM	KPNA1	KPNA1	STARD6	KPNA1	PICALM	PSKH1	EHD1	DUSP14	KIAA1889	MAP3K7IP2	FLJ20273	AGTRAP
	CHAF1A	FLJ20273	KIAA0863	CLCN5	STAC	PSKH1	HBP1	SATB2	SF3B1	SF3B1	ETS1	HBP1	MLR1	PAPOLA	KCNN3	FLJ30435	SOX10
	C10orf26	SIM2	AXOT	COL7A1	FLJ14299	ETS1	AGTRAP	RPS6KA3	FLJ14299	PSKH1	HBP1	C10orf26	KPNA1	C10orf26	PCDH9	FLJ37543	SUFU
	SGCZ	FBXO33	WIT-1	COPS3	CAB39	HBP1	SOX10	FOS	MAP3K10	SIM2	SIM2	SIM2	SF3B1	KIAA0863	MYO10	FOS	RAB34
	SDCBP	SBFL	ENTH	CUGBP2	SF3B1	FBXO33	SUFU	NKX3-1	COL7A1	ETNK2	OLFML3	FBXO33	CSF1R	TOMM20	SLC11A2	GCET2	MAP3K7IP2
	SMARCA4	SCCB	SKI	CYR61	KPNA1	AICDA	RAB34	EIF2C4	KBTBD2	CAB39	FBXO33	AGTRAP	EHD1	GCET2	COPS3	GCN5L2	GCN5L2

2	AMACR	AMACR	AMACR	HPN	SLC25A6	AMACR	AMACR	AMACR	AMACR	AMACR	AMACR	AMACR	HPN	AMACR	AMACR	EPRS	GUCY1A3	HPN		A
3	CYP1B1	OACT2	FASN	NME2	EEF2	FASN	GDF15	GDF15	GDF15	GDF15	GDF15	GDF15	AMACR	NME1	FASN	NME1	PRSS8	NME2		C
4	ATF5	GDF15	HPN	CBX3	SAT	KRT18	NME1	FASN	NME1	NME1	FASN	NME1	NME2	GDF15	GDF15	HPN	HPN	CBX3		
5	BRCA1	FASN	UAP1	GDF15	NME2	GDF15	FASN	NME1	FASN	FASN	KRT18	FASN	LDHA	FASN	KRT18	NME2	AMACR	SLC25A6		I
6	LGALS3	ANK3	GUCY1A3	MTHFD2	LDHA	EEF2	EEF2	EEF2	KRT18	EEF2	NME1	EEF2	RPL15	KRT18	OACT2	BRCA1	SND1	CANX		I
7	MYC	KRT18	OACT2	MRPL3	CANX	NME1	KRT18	KRT18	EEF2	KRT18	EEF2	KRT18	CYP1B1	NME2	NME2	SLC39A6	LDHA	SAT		
8	PCDHGC3	UAP1	SLC19A1	SLC25A6	NACA	UAP1	UAP1	UAP1	NME2	NME2	UAP1	UAP1	ATF5	EEF2	SLC25A6	PPIB	GDF15	MRPL3		I
9	WT1	GRP58	KRT18	NME1	FASN	ACADSB	NME2	NME2	UAP1	SLC25A6	OACT2	NME2	BRCA1	OACT2	EEF2	RAN	OACT2	GDF15		C
10	TFF3	PPIB	EEF2	COX6C	SND1	ALCAM	OACT2	SLC25A6	OACT2	UAP1	NME2	SLC25A6	LGALS3	OGT	UAP1	OACT2	PTPLB	DDB2		SI
11	MARCKS	KRT7	STRA13	JTV1	KRT18	ANK3	SLC25A6	OACT2	SLC25A6	OACT2	SLC25A6	OACT2	MYC	SLC25A6	NME1	SLC19A1	KRT18	NME1		
12	OS-9	NME1	ALCAM	CCNG2	RPL15	AP3S1	CANX	OGT	STRA13	CYP1B1	OGT	CANX	PCDHGC3	UAP1	OGT	EEF2	JTV1	TRA1		C
13	CCND2	STRA13	GDF15	AP3S1	TNFSF10	ATF5	STRA13	CANX	CANX	ATF5	SAT	GRP58	WT1	CYP1B1	ATF5	FMO5	SLC39A6	CYP1B1		C
14	NME1	DAPK1	NME1	EEF2	SERP1	ATP6V0B	GRP58	GRP58	GRP58	CANX	NACA	STRA13	GUCY1A3	STRA13	CBX3	TRAP1	NME1	WT1		S
15	DRRK1A	TMEM4	CALR	RAN	GRP58	BRCA1	SND1	MTHFD2	SND1	OGT	LDHA	SND1	OACT2	GRP58	CYP1B1	AP3S1	OGT	EMTDP6		
16	TRAP1	CANX	SND1	PRKACA	ALCAM	CALR	ALCAM	STRA13	ALCAM	BRCA1	CANX	ALCAM	TFF3	ATF5	STRA13	PSAP	RAN	COX6C		
17	FMO5	TRA1	STAT6	RAD23B	GDF15	CANX	MTHFD2	SND1	TMEM4	MTHFD2	SLC19A1	MTHFD2	MARCKS	CBX3	ANK3	ACADSB	CCT2	STRA13		A
18	ZHX2	PRSS8	TCEB3	PSAP	TMEM4	CBX3	MRPL3	MRPL3	MTHFD2	LGALS3	ANK3	MRPL3	OS-9	SAT	BRCA1	NACA	SLC19A1	PCDHGC3		M
19	RPL36AL	EMTDP6	EIF4A1	CCT2	CCT2	CCND2	PPIB	ALCAM	MRPL3	GRP58	ALCAM	SLC19A1	CCND2	ALCAM	GUCY1A3	G3BP2	MARCKS	MTHFD2		C
20	ITPR3	PPP1CA	LMAN1	G3BP	SLC39A6	CCNG2	SLC19A1	SLC19A1	PPIB	SND1	GUCY1A3	TMEM4	CBX3	CANX	LGALS3	CALR	SNX4	PTPLB		
21	GCSH	ACADSB	MAOA	EPRS	RPL5	CCT2	TMEM4	PPIB	OGT	CBX3	SND1	PPIB	GDF15	SND1	MTHFD2	JTV1	RPL36AL	SND1		
22	DDB2	PTPLB	ATP6V0B	CKAP1	RPS13	CKAP1	CCT2	CYP1B1	CYP1B1	MRPL3	MTHFD2	CCT2	FASN	BRCA1	SAT	SAT	STRA13	NACA		
23	TFCP2	TMEM23	PPIB	LIG3	MTHFD2	COX6C	FMO5	TMEM4	SLC19A1	MYC	TMEM4	FMO5	ANK3	TMEM4	GRP58	MRPL3	CKAP1	LDHA		M
24	TRAM1	MRPL3	FMO5	SNX4	G3BP2	CYP1B1	OGT	ATF5	ATF5	STRA13	MRPL3	OGT	KRT18	CCT2	CANX	OS-9	UAP1	KRT17		I
25	YTHDF3	SLC19A1	SLC7A5	NSMAF	UAP1	DAPK1	CYP1B1	CBX3	CBX3	ALCAM	GRP58	CYP1B1	SLC39A6	ANK3	MRPL3	TMEM23	SAT	PPIB		L