

Suppl. Table S5: AIMS gene pairs included in *HTG EdgeSeq Oncology Biomarker Panel*

Subtype	rank[†]	gene	Entrez	gene	Entrez
BasalL	1	FOXA1	3169	< CDC20	991
BasalL	2	TFF3	7033	< KIF2C	11004
BasalL	3	CA12	771	< PTTG1	9232
BasalL	4	ESR1	2099	< FOXC1	2296
BasalL	6	NAT1	9	< ASPM	259266
BasalL	9	DNAJC12	56521	< MELK	9833
BasalL	17	KRT18	3875	< CSTB	1476
BasalL	19	SPDEF	25803	< TNFRSF21	27242
HER2E	2	SERPINA3	12	< ERBB2	2064
HER2E	3	RBBP8	5932	< RRM2	6241
HER2E	6	STC2	8614	< FOXA1	3169
HER2E	13	SLC39A6	25800	< TSPAN13	27075
HER2E	14	ESR1	2099	< NQO1	1728
HER2E	15	SCUBE2	57758	< UBE2C	11065
HER2E	16	KIT	3815	< FGFR4	2264
HER2E	17	IRS1	3667	< MELK	9833
HER2E	18	KRT17	3872	< S100A8	6279
HER2E	20	FOXC1	2296	< CDC20	991
LumA	1	CCNB2	9133	< MAP2K4	6416
LumA	2	BIRC5	332	< HPN	3249
LumA	4	KIF2C	11004	< SHC2	25759
LumA	8	PRC1	9055	< GAMT	2593
LumA	9	MELK	9833	< APH1B	83464
LumA	12	TTK	7272	< FMO5	2330
LumA	17	CDKN3	1033	< MNAT1	4331
LumA	20	CKS2	1164	< STC2	8614
LumB	5	CRYAB	1410	< RACGAP1	29127
LumB	6	CDH3	1001	< PRC1	9055
LumB	11	MMP7	4316	< TOP2A	7153
LumB	14	CX3CL1	6376	< KIF2C	11004
LumB	16	GSN	2934	< ESR1	2099
LumB	20	ANXA3	306	< CEP55	55165
NormL	4	CEP55	55165	< COL17A1	1308
NormL	5	PCNA	5111	< CAV1	857
NormL	7	CKS2	1164	< ITM2A	9452
NormL	8	RRM2	6241	< IGF1	3479
NormL	10	CDKN3	1033	< TSPAN7	7102
NormL	11	TYMS	7298	< SFRP1	6422
NormL	12	MCM2	4171	< CDKN1C	1028
NormL	17	UBE2C	11065	< PTN	5764
NormL	20	RFC4	5984	< IGFBP6	3489

[†] Rank of the respective rule among the 20 rules for each subtype used by AIMS [11]