

Online supplementary Table S2. Biomarkers identified in included studies

Biomarkers	Subcategory
Autoantibodies and other immunological markers	
anti-ANXA4	Not applicable
anti-CTAG1	Not applicable
anti-DCT	Not applicable
anti-DDX53	Not applicable
anti-ERBB2-C	Not applicable
anti-FOLH1-iso1	Not applicable
anti-FOLH1-iso7	Not applicable
anti-GRINA	Not applicable
anti-HP-immunoglobulin-G	Not applicable
anti-IGF2BP1	Not applicable
anti-MAGEA4	Not applicable
anti-P53	Not applicable
anti-PSCA	Not applicable
anti-SDCCAG8	Not applicable
anti-TOPO48-autoantibody	Not applicable
anti-TP53	Not applicable
anti-TPM3-iso3	Not applicable
artificial-peptide-1625	Not applicable
artificial-peptide-1656	Not applicable
artificial-peptide-1743	Not applicable
artificial-peptide-1754	Not applicable
artificial-peptide-707	Not applicable
artificial-peptide-799	Not applicable
artificial-peptide-877	Not applicable
biomarker-14-3-3ξ	Not applicable
BMI-1	Not applicable
C-Myc	Not applicable
Complement-C3	Not applicable
Complement-C4	Not applicable
Complement-C5	Not applicable
CRP	Not applicable
CTAG2	Not applicable
DDX53	Not applicable
DKK-1-autoantibody	Not applicable
ENO1	Not applicable
HCC1.4	Not applicable
HCC-22-5	Not applicable
HCCR	Not applicable
HpAb-IgG-anti-Helicobacterpylori	Not applicable
HRAS	Not applicable
HSP70	Not applicable
HSPD1	Not applicable
IGF2BP2	Not applicable
IGF2BP3	Not applicable
IgG-Gal-ratio	Not applicable
IMP1	Not applicable
KM-HN-1	Not applicable
Koc	Not applicable
L1ORF1	Not applicable
Lewis-x	Not applicable
LY6K-autoantibodies	Not applicable
MAGEA3	Not applicable
MDM2	Not applicable

Biomarkers	Subcategory
MIA	Not applicable
MIC	Not applicable
MICA	Not applicable
MICB	Not applicable
MTA1	Not applicable
MUC5AC	Not applicable
MYC	Not applicable
NPM1	Not applicable
NSG1	Not applicable
NY-ESO-1-CTAG1A	Not applicable
P16	Not applicable
p53	Not applicable
p62	Not applicable
p90	Not applicable
PAM4-Enzyme-Immunoassay	Not applicable
Prx6	Not applicable
PTEN	Not applicable
SCC-Antigen	Not applicable
sHLA-G1-plus-sHLA-G5	Not applicable
Sialyl-Lewis-x	Not applicable
sMICA	Not applicable
SOX2	Not applicable
SPON1	Not applicable
Survivin	Not applicable
TP53-ep1	Not applicable
TP53-ep2	Not applicable
Circulating tumour DNA	
any-screened-codons	Not applicable
HER2-gene-fragments	Not applicable
hotspot-codons-12	Not applicable
hotspot-codons-13	Not applicable
hotspot-codons-61	Not applicable
MYC-gene-fragments	Not applicable
Metabolic markers	
Alanine	Not applicable
ApoCIII-0	Not applicable
Asparagine	Not applicable
biomarker-5.8kDa-fibrinogen-fragment	Not applicable
C16.1	Not applicable
C18.1	Not applicable
C18.2	Not applicable
C18.3	Not applicable
C20.4	Not applicable
C22.6	Not applicable
Calcineurin-B	Not applicable
Calcium-calmodulin-dependent-kinase-IV	Not applicable
Ceramide	Not applicable
CO2	Not applicable
decanal	Not applicable
DR-70-fibrinogen-fragment	Not applicable
DUPAN-2	Not applicable
Ferritin	Not applicable
Histidine	Not applicable
isocitrate	Not applicable
Isoleucine	Not applicable
LysoPC	Not applicable
neopterin	Not applicable

Biomarkers	Subcategory
PC-594	Not applicable
pentanoic-acid	Not applicable
phosphatidylcholine-C18.0-C22.6	Not applicable
proline	Not applicable
pyruvate	Not applicable
Serine	Not applicable
Serine-threonine-protein-kinase-MARK1	Not applicable
sphinganine-1-phosphate-d18.0	Not applicable
sphingomyelin	Not applicable
sphingomyelin-d17.1-C18.0	Not applicable
sphingomyelin-d18.2-C17.0	Not applicable
Tryptophan	Not applicable
Uric-acid	Not applicable
MicroRNAs and other RNAs (including protein coding genes)	
ABHD3A	Not applicable
ABI1	Not applicable
AC100830.4	Not applicable
ACSL3	Not applicable
AKR1B1	Not applicable
ALCAM-CD166	Not applicable
ANXA1	Not applicable
ATP11B	Not applicable
B3GNT5	Not applicable
BACH1	Not applicable
C2orf81	Not applicable
CCNYL1	Not applicable
CD24	Not applicable
CENPN	Not applicable
CFHR3	Not applicable
CHI3L1	Not applicable
CLEC4D	Not applicable
COL17A1	Not applicable
COL18A1	Not applicable
CSTB	Not applicable
CTC-501O10.1	Not applicable
CXCL7	Not applicable
CYB5R4	Not applicable
DENND1B	Not applicable
Disks-large-homolog-1	Not applicable
ECHDC3	Not applicable
EIF3G	Not applicable
ENA78-CXCL5	Not applicable
ENTPD1	Not applicable
ERO1A	Not applicable
exosomal-lncUEGC1	Not applicable
exosomal-lncUEGC2	Not applicable
FAM198B	Not applicable
FAM49B	Not applicable
FAR1	Not applicable
FGL2	Not applicable
FNDC3B	Not applicable
FOXD2-AS1	Not applicable
FPGT	Not applicable
GALNT4	Not applicable
H19	Not applicable
HEATR5A	Not applicable
HTATIP2	Not applicable

Biomarkers	Subcategory
IFNGR1	Not applicable
IKBIP	Not applicable
ITIH4	Not applicable
KRT4	Not applicable
KRT6A	Not applicable
LDHA	Not applicable
LINC00086	Not applicable
LINC00152	Not applicable
LINC00467	Not applicable
lncRNA-AOC4P	Not applicable
lncRNA-BANCR	Not applicable
lncRNA-CCAT2	Not applicable
lncRNA-LINC00857	Not applicable
lncRNA-RINCR	Not applicable
LOC100506474	Not applicable
LPAR6	Not applicable
MBTPS2	Not applicable
MCMBP	Not applicable
MIER1	Not applicable
miR-1	Not applicable
miR-106a	Not applicable
miR-106b	Not applicable
miR-106b-3p	Not applicable
miR-107	Not applicable
miR-10b-5p	Not applicable
miR-122-5p	Not applicable
miR-125b-5p	Not applicable
miR-126-3p	Not applicable
miR-1271	Not applicable
miR-1285	Not applicable
miR-1290	Not applicable
MiR-1322	Not applicable
miR-132-3p	Not applicable
MIR140-5p	Not applicable
miR-142-3p	Not applicable
miR-148a	Not applicable
miR-155	Not applicable
miR-16	Not applicable
miR-17-5p	Not applicable
miR-181a	Not applicable
miR-181b	Not applicable
miR-181c-5p	Not applicable
miR-185	Not applicable
miR-185-5p	Not applicable
miR-191	Not applicable
miR-192-5p	Not applicable
miR-193b-3p	Not applicable
miR-194	Not applicable
miR-195	Not applicable
miR-195-5p	Not applicable
miR196a	Not applicable
miR-19b-3p	Not applicable
miR-200a-3p	Not applicable
miR-203	Not applicable
miR-20a	Not applicable
miR20a-3p	Not applicable
miR-20b-5p	Not applicable

Biomarkers	Subcategory
miR-21	Not applicable
miR-210	Not applicable
miR-214	Not applicable
miR-218	Not applicable
miR-221	Not applicable
miR-221-3p	Not applicable
miR-223	Not applicable
miR223-3p	Not applicable
miR-22-5p	Not applicable
miR-24	Not applicable
miR-25	Not applicable
miR-26a	Not applicable
miR-26b-3p	Not applicable
miR-27a	Not applicable
miR-27b-3p	Not applicable
miR-28-3p	Not applicable
miR-296-5p	Not applicable
miR-31	Not applicable
miR-3196	Not applicable
miR-34	Not applicable
miR-34a	Not applicable
miR-375	Not applicable
miR-376c	Not applicable
miR-378	Not applicable
miR-421	Not applicable
miR-423-5p	Not applicable
miR-451	Not applicable
miR-485-3p	Not applicable
miR-486	Not applicable
miR-486-5p	Not applicable
miR-663B	Not applicable
miR-6794-5p	Not applicable
miR-6799-5p	Not applicable
miR-6807-5p	Not applicable
miR-6820-5p	Not applicable
miR-6856-5p	Not applicable
miR-744	Not applicable
miR-744-5p	Not applicable
miR-7-5p	Not applicable
miR-8073	Not applicable
miR-92a	Not applicable
miR-92b	Not applicable
miR93	Not applicable
miR-938	Not applicable
miR-942	Not applicable
miR-99a	Not applicable
miRNA-146a	Not applicable
mirR-19a	Not applicable
NABP1-OBFC2A	Not applicable
NFE2L2	Not applicable
OSBPL8	Not applicable
PANDAR	Not applicable
PPIH	Not applicable
PPL	Not applicable
PPP1R13L	Not applicable
PRDM5	Not applicable
PTPRC	Not applicable

Biomarkers	Subcategory
RAB10	Not applicable
RANBP9	Not applicable
REG3A	Not applicable
RP11-210K20.5	Not applicable
RPLP1	Not applicable
RRAGD	Not applicable
S100A10	Not applicable
SEMA4B	Not applicable
SLC22A15	Not applicable
SLC44A1	Not applicable
SLFN12	Not applicable
SMARCC2	Not applicable
SPINK7	Not applicable
SPP1	Not applicable
SRBD1	Not applicable
TET2	Not applicable
TLE2	Not applicable
UBE2W	Not applicable
UBE4A	Not applicable
UCA1	Not applicable
USP15	Not applicable
VPS51-C11orf2	Not applicable
WSB1	Not applicable
XIST	Not applicable
ZEB2	Not applicable
ZMPSTE24	Not applicable
Other biomarkers	
butanal	Volatile organic compounds
butyric-acid	Volatile organic compounds
hexanoic-acid	Volatile organic compounds
MPV	platelets
NLR	platelets
PDW	platelets
PLR	platelets
sCD40L	platelets
Other proteins	
ADAM8	Novel Proteins
AFP	Classic Tumour Markers
AHSG	Novel Proteins
Albumin	Not otherwise specified
AMBP	Novel Proteins
APOA4	Novel Proteins
apoAII-AT	Novel Proteins
apoAII-ATQ	Novel Proteins
APOC3	Novel Proteins
ApoC-I	Novel Proteins
apolipoprotein-A1	Novel Proteins
Aprataxin-and-PNK-likefactor	Not otherwise specified
ATG-authophagy-isoform-CRA-b	Not otherwise specified
CA125	Classic Tumour Markers
CA153	Not otherwise specified
CA19-9	Classic Tumour Markers
CA242	Classic Tumour Markers
CA50	Classic Tumour Markers
CA724	Classic Tumour Markers
CA727	Classic Tumour Markers
CathepsinD	Coagulation and angiogenesis molecules

Biomarkers	Subcategory
CathepsinS	Coagulation and angiogenesis molecules
CEA	Classic Tumour Markers
CEACAM-1	Classic Tumour Markers
c-Met-protein	Coagulation and angiogenesis molecules
cyclinB1	Not otherwise specified
Cyclin-dependent-kinase-2	Not otherwise specified
CYFRA21-1	Classic Tumour Markers
Dickkopf-1	Not otherwise specified
Dysbindin	Not otherwise specified
EGF	Not otherwise specified
Endothelial-lipase	Not otherwise specified
FAPa	Not otherwise specified
FGA	Coagulation and angiogenesis molecules
f-PSA	Classic Tumour Markers
G-17	Hormones
gastrin	Hormones
G-CSF	Cytokines, Chemokines and Insulin-like Growth Factors
GKN1	Not otherwise specified
GLP1	Not otherwise specified
GTP-binding-protein-GEM	Not otherwise specified
HADH2-protein	Not otherwise specified
Haptoglobin	Novel Proteins
HCG	Hormones
HSP27	Novel Proteins
ICAM-1	Adhesion and Matrix Proteins
IFN-c	Cytokines, Chemokines and Insulin-like Growth Factors
IGFBP2	Cytokines, Chemokines and Insulin-like Growth Factors
IL-10	Cytokines, Chemokines and Insulin-like Growth Factors
Il-12p70	Cytokines, Chemokines and Insulin-like Growth Factors
IL-13	Cytokines, Chemokines and Insulin-like Growth Factors
IL-15	Cytokines, Chemokines and Insulin-like Growth Factors
IL-1a	Cytokines, Chemokines and Insulin-like Growth Factors
IL-1b	Cytokines, Chemokines and Insulin-like Growth Factors
IL-2	Cytokines, Chemokines and Insulin-like Growth Factors
IL-4	Cytokines, Chemokines and Insulin-like Growth Factors
IL-6	Cytokines, Chemokines and Insulin-like Growth Factors
IL-8-CXCL8	Cytokines, Chemokines and Insulin-like Growth Factors
Intercellular-adhesion-molecule-1	Adhesion and Matrix Proteins
interferon-a	Cytokines, Chemokines and Insulin-like Growth Factors
Interferon-gamma	Cytokines, Chemokines and Insulin-like Growth Factors
IP-10-CXCL10	Cytokines, Chemokines and Insulin-like Growth Factors
LRG1	Novel Proteins
Lymphotoxin-alpha	Not otherwise specified
MCP-1-CCL2	Cytokines, Chemokines and Insulin-like Growth Factors
M-CSF	Cytokines, Chemokines and Insulin-like Growth Factors
Membrane-associated-guanylate-kinase, WW-PDZ-domain-containingprotein1	Adhesion and Matrix Proteins
MMP-1	Adhesion and Matrix Proteins
MMP13	Adhesion and Matrix Proteins
MMP-7	Adhesion and Matrix Proteins
MMP-8	Adhesion and Matrix Proteins
MMP-9	Adhesion and Matrix Proteins
Myomesin-2	Not otherwise specified
NSE	Classic Tumour Markers
olfactomedin-4-GW112-hGC-1	Not otherwise specified
Osteopontin	Adhesion and Matrix Proteins
OPG-osteoprotegerin	Novel Proteins

Biomarkers	Subcategory
PAM4-reactive-MUC1	Not otherwise specified
peptide-molecular-weight-1468-m-z	Novel Proteins
peptide-molecular-weight-3935-m-z	Novel Proteins
peptide-molecularweight-7560-m-z	Novel Proteins
PGI	Novel Proteins
PGII	Novel Proteins
PhoSL-HP	Not otherwise specified
Plasma-protease-C1-inhibitor	Not otherwise specified
PR-domain-zinc-finger-prot-8	Not otherwise specified
Properdin	Not otherwise specified
Protein-kinase-C-zeta	Not otherwise specified
Protein-tyrosine-kinase-6	Not otherwise specified
PSA	Classic Tumour Markers
RegIV	Not otherwise specified
SAA	Novel Proteins
SCF	Cytokines, Chemokines and Insulin-like Growth Factors
SDF-1-CXCL12	Cytokines, Chemokines and Insulin-like Growth Factors
sE-CAD	Adhesion and Matrix Proteins
Stathmin-1	Not otherwise specified
TARC	Cytokines, Chemokines and Insulin-like Growth Factors
tenascinC	Adhesion and Matrix Proteins
TFF1	Novel Proteins
TFF2	Novel Proteins
TFF3	Novel Proteins
TFPI	Novel Proteins
TGF-a	Cytokines, Chemokines and Insulin-like Growth Factors
THBS2	Coagulation and angiogenesis molecules
TIMP-1	Adhesion and Matrix Proteins
TIMP-3	Adhesion and Matrix Proteins
TIMP-4	Adhesion and Matrix Proteins
TK1	Novel Proteins
TNF-a	Cytokines, Chemokines and Insulin-like Growth Factors
TNFRSF1A	Not otherwise specified
TPS	Novel Proteins
transthyretin	Novel Proteins
TSGF	Novel Proteins
TSP1	Coagulation and angiogenesis molecules
TumorM2-PK	Novel Proteins
ULBP2	Novel Proteins
VEGF	Coagulation and angiogenesis molecules
Visual-systemhomeobox-2	Not otherwise specified
YKL-40	Other protein