

Supporting Information

A Serum Proteomic Approach for the Identification of Serum Biomarkers Contributed by Oral Squamous Cell Carcinoma and Host Tissue Microenvironment

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Table S1. MudPIT/MASCOT results: human protein identified:

OSCC 1		
Human Protein Name	Accession	Mascot score
Bullous pemphigoid antigen 1	gi 55960095	97
AF-6	gi 3452572	94
Chromodomain helicase DNA binding protein 3	gi 52630324	79
ALR	gi 2358287	73
Ataxia/oculomotor apraxia protein 2	gi 38195410	73
Dachsous 1	gi 16933557	72
BRG1-binding protein ELD/OSA1	gi 18568414	72
Titin	gi 407139	70
Brain carboxylesterase hBr3	gi 6009628	69
Nuance	gi 17016967	68
MLEL1	gi 11526793	68
CASP8AP2	gi 55958516	67
Family with sequence similarity 47, member C	gi 57163103	67
Spectrin	gi 4507191	66
KIAA1236	gi 20521808	64
KIAA0998	gi 4589640	64
KIAA0303	gi 2224547	64
Centrosome (cep290)	gi 51890223	64
KIAA1817	gi 51477220	63
CGI-114	gi 4929697	62
HPK/GCK-like kinase HGK	gi 4322936	62
Centromeric protein E (CENP-E)	gi 41149911	62
C protein	gi 36501	61
KIAA1217	gi 50843820	61
DEAH box polypeptide	gi 4503297	61
Ribosomal-like protein (HLA-F product)	gi 263502	61
DKFZP434C212	gi 51093832	60
MYST histone acetyltransferase (monocytic	gi 5803098	60
Actin-binding protein (ABP-278)	gi 3282771	60
PSK-1 (type I transmembrane receptor)	gi 6018464	60
Putative RHO/RAC effector	gi 2439517	59
antigen to monoclonal antibody Ki-67	gi 55958671	59
FLJ20433	gi 22713492	58
DNA repair protein RAD52	gi 499626	57
Rough Deal (centromere / kinetochore) protein	gi 7661960	57
Polyamine modulated factor 1 binding protein	gi 13775212	57
HLA-B associated transcript-2 (BAT2)	gi 38173707	57
GRIP and coiled-coil domain-containing 2	gi 7662062	56
Formin binding protein 1 (FBNP1)	gi 41581463	55
Brca2 (breast ca 2, 214K23.1)	gi 16116616	55
Ryanodine receptor type 1	gi 107631	55
KIAA2019	gi 24899202	55
Nance-Horan syndrome protein	gi 37789887	55
Protocadherin fat 2	gi 7407144	54
Zinc finger protein 600	gi 39930585	54
Chromosome 10 open reading frame 79	gi 51339293	54
CH-TOG protein (Colonic and hepatic tumor over-	gi 3121951	54
DNA-activated protein kinase	gi 1362789	54
Citron	gi 32698688	54
WD repeat domain 17 isoform 1	gi 31317311	53
KIAA1433	gi 7243247	53
Steerin1	gi 27526775	53
KIAA0274	gi 40788935	53
Spastic ataxia of Charlevoix-Saguenay (sacsin)	gi 55957308	52
Synaptic Ras GTPase activating protein 1	gi 56203648	52
KIAA0922	gi 28279982	52

Thyroid hormone receptor-associated protein complex	gi 3319290	52
Hemicentin	gi 31083306	52
CAGF28	gi 2565046	52
Enverin	gi 20978308	52
BTB/POZ zinc finger protein DPZF	gi 13386602	51
OSC 2		
Human Protein Name	Accession	Mascot score
Keratin 10	gi 186629	110
CP protein	gi 47125416	73
Fibronectin	gi 51476292	72
Gelsolin	gi 90508	60
EGFR	gi 757924	59
KIAA0209	gi 50510415	51
OTTHUMP00000045643	gi 7263925	50

Mascot Score (confidence):

>51 (p<0.05)

Table S2. MudPIT/MASCOT results: mouse protein identified.

OSCC 1		
Mouse Protein Name	Accession	Mascot score
Contraspin	gi 54173	644
Apolipoprotein A-I	gi 6753096	628
Pzp protein	gi 34785996	548
Murinoglobulin 1	gi 31982171	468
Complement C3 precursor (HSE-MSF)	gi 1352102	436
Serpina1b protein	gi 15277553	433
Alpha-1 protease inhibitor 2	gi 191844	410
Serine (or cysteine) proteinase inhibitor	gi 6678085	410
DOM1	gi 21322147	401
Apolipoprotein A-IV	gi 109575	266
Unnamed protein product APOA4	gi 14789706	266
Apolipoprotein E	gi 192005	126
Es1 protein	gi 22135640	108
Hemopexin	gi 1881768	92
Complement 3	gi 192281	90
Dystonin isoform b	gi 19882221	88
Fetuin	gi 2546995	83
Sex-limited protein, complement component 4	gi 90402	71
BC049975 protein	gi 51767018	69
RIKEN cDNA 4921517L17	gi 51706473	69
Ataxia/oculomotor apraxia protein 2	gi 57092031	66
Bullous pemphigoid antigen 1 isoform 1	gi 57094564	65
mKIAA0687 protein	gi 37360046	65
S-Afadin	gi 2555013	64
Fibronectin 1	gi 46849812	64
Tetrodotoxin resistant sodium channel Nav1.	gi 42768804	63
Small fragment nuclease, Smfn	gi 13097411	62
Titin	gi 51706225	62
Multiple PDZ domain protein	gi 17225415	61
Zinc finger protein 288	gi 57109650	61
Axonemal dynein heavy chain 8	gi 14335446	56
Pleckstrin	gi 29243976	56
Retinoblastoma-binding protein 8 (RBBP-8)	gi 12643796	55
MHC class III H2 sex-limited protein	gi 387476	54
BC067074 protein	gi 51767918	54
Oncostatin M receptor	gi 57085805	54
Carboxylesterase MH1	gi 14331135	51
M-phase phosphoprotein	gi 30144662	51
Ryanodine receptor 1 (Skeletal muscle-type)	gi 134134	51
OSCC 2		
Mouse Protein Name	Accession	Mascot score
Pzp protein	gi 34785996	1135
Alpha-2 macroglobulin MUG1	gi 109550	1058
Complement C3 precursor (HSE-MSF)	gi 1352102	977
Contraspin	gi 54173	840
Cp protein	gi 38614350	547
Es1 protein	gi 22135640	508
Serine (or cysteine) proteinase inhibitor	gi 6678083	490
Alpha-1 protease inhibitor 2 (homolog w Serpina1b)	gi 191844	487
DOM1 (homolog w Serpina1a)	gi 21322147	477
Alpha-1 antitrypsin	gi 309079	447
Murinoglobulin 4	gi 47169562	266
C4 complement	gi 387438	382
Fibronectin	gi 1181242	376
Apolipoprotein A-I	gi 2145141	361

Apolipoprotein A-IV	gi 91885	358
Unnamed protein product (Apoa4)	gi 12836356	358
MHC class III H2 sex-limited protein	gi 387476	352
Fibronectin 1	gi 46849812	333
Serpina1d protein	gi 18256880	304
Hemopexin	gi 1881768	244
Histocompatibility 2, complement component factor	gi 6996919	241
Afamin	gi 21553101	240
Kininogen (homolog w bradykinin)	gi 12643495	224
Plasminogen	gi 200403	214
Clusterin (homolog w sulfated glycoprotein 2)	gi 7304967	206
Carboxylesterase 1	gi 10946842	193
Complement component factor h	gi 19072788	167
Histidine-rich glycoprotein	gi 11066003	158
Complement C3 precursor	gi 544053	157
Beta-2 glycoprotein I	gi 1938223	154
Serum paraoxonase/arylesterase 1 (PON 1)	gi 1709718	148
Apolipoprotein B	gi 63629958	146
Macroglobulin alpha2	gi 224053	145
Serum amyloid P (SAP)	gi 200924	139
Alpha 2 HS-glycoprotein (homolog w fetuin)	gi 248764	139
Alpha 2-Heremans-Schmid-glycoprotein	gi 2511777	132
Orosomucoid 2	gi 6754950	129
C4/Slp hybrid	gi 220354	126
Vitamin D-binding protein	gi 193446	124
antithrombin III	gi 179161	121
Complement component 7	gi 63672487	117
Unnamed protein product	gi 53814	114
Apolipoprotein C-III	gi 15421856	110
Fetub protein (homolog w GUGU alpha & beta)	gi 17390796	110
RIKEN cDNA 1300017J02	gi 18204720	104
Alpha-1-acid glycoprotein 2A (homolog w	gi 109546	104
Angiostatin (homolog w plasminogen)	gi 38000582	100
C-reactive protein, petaxin related	gi 6681025	91
Serum amyloid A 4	gi 6755398	87
Vitronectin	gi 202372	85
Gelsolin	gi 28916693	74
Quiescin Q6 isoform b	gi 12963609	72
Adipsin	gi 673431	64
Proapolipoprotein	gi 178775	61
Coagulation factor V	gi 6679731	58
B-factor, properdin	gi 47059181	54
Chymotrypsin C (caldecrin); caldecrin (serum	gi 55585960	54
Actin, cytoplasmic 1 (Beta-actin)	gi 60389477	53
mKIAA0209 protein	gi 50510415	51
Nuclear protein SkiP (Ski-interacting protein)	gi 57090307	51
Liver carboxylesterase 1	gi 62510567	50
Reverse transcriptase	gi 1174092	50
Cfh protein	gi 20071242	50
Protease inhibitor 3	gi 227259	49
Cpn2 protein (Carboxypeptidase N subunit 2)	gi 19388017	49
BRCA2	gi 1743860	47

Mascot Score (confidence):

>51 (p<0.05)