

Supplementary Table S1. The full results of the DESeq2 analysis in peptide expression between IEFVPTC versus non-IEFVPTC samples

Gene_name	baseMean	log2FoldChange	lfcSE	stat	p-value	Padj	Significance	Diffexpressed
NPAP1	3.97158	6.242604	0.971957	-6.42272	1.33862458028379e-10	1.54477276564749e-07	Negative	UP
STK33	3.791751	6.175818	0.988521	-6.24753	4.16987882212145e-10	1.60401338690938e-07	Negative	UP
O51I2	3.620459	6.01315	0.962278	-6.24887	4.13439790149048e-10	1.60401338690938e-07	Negative	UP
DLG4	3.516291	5.968804	0.97239	-6.13828	8.34195469759275e-10	2.40665393025551e-07	Negative	UP
CCHCR	6.236337	-5.59586	0.978121	5.721029	1.05880945934867e-08	2.44373223217673e-06	Positive	DOWN
STAR5	5.72605	-5.4737	0.983502	5.565524	2.61365409956339e-08	5.02692805149358e-06	Positive	DOWN
DDX6	5.873776	-5.50936	1.026536	5.366948	8.00802681995416e-08	1.32018042146101e-05	Positive	DOWN
THUM2	3.257518	5.859852	1.105652	-5.2999	1.1586326506153e-07	1.67132759851257e-05	Negative	UP
CODA1	3.228627	5.847134	1.107798	-5.27816	1.30488984650669e-07	1.67315875874302e-05	Negative	UP
LIGO2	5.824202	-5.49841	1.067136	5.152494	2.570454854997e-07	2.96630490266654e-05	Positive	DOWN
TAF6L	3.00062	5.740534	1.138187	-5.04358	4.56909286539971e-07	4.79339378788296e-05	Negative	UP
RIPL2	3.105431	5.887648	1.182912	-4.97725	6.44941677047711e-07	6.20218912760882e-05	Negative	UP
NSUN5	5.514118	-5.41928	1.12029	4.837394	1.31552411744766e-06	0.000117	Positive	DOWN
PHF6	5.400268	-5.38714	1.127835	4.776534	1.78342100645555e-06	0.000147	Positive	DOWN
PCAT1	2.873484	5.775624	1.217039	-4.74563	2.07853734261966e-06	0.00016	Negative	UP
PHTF2	2.794527	5.735533	1.228595	-4.66837	3.03602872994919e-06	0.000219	Negative	UP
NUBPL	3.135225	5.901416	1.290796	-4.57192	4.83274863312469e-06	0.000328	Negative	UP
SYNE3	5.072267	-5.29864	1.179672	4.491619	7.06839519073087e-06	0.000453	Positive	DOWN
NBEL1	2.932825	5.80517	1.320672	-4.39562	1.10457177277311e-05	0.000671	Negative	UP
MAST3	2.905412	5.791658	1.324909	-4.37136	1.23473639875359e-05	0.000712	Negative	UP
CC169	5.149396	-5.31843	1.235157	4.305874	1.66327495331197e-05	0.000847	Positive	DOWN
CD054	3.274754	5.964215	1.385963	-4.3033	1.68273233349799e-05	0.000847	Negative	UP
TRI38	2.833841	5.75546	1.337661	-4.30263	1.68783090133199e-05	0.000847	Negative	UP

OLIG1	4.930557	-5.25794	1.234811	4.258094	2.06177446788005e-05	0.000991	Positive	DOWN
CSC2A	2.685284	5.677892	1.362073	-4.16857	3.06521245593691e-05	0.001415	Negative	UP
DSCAM	4.568684	-5.14776	1.243754	4.138892	3.48986791142635e-05	0.001492	Positive	DOWN
ARV1	4.600611	-5.15754	1.244421	4.144527	3.40516068029768e-05	0.001492	Positive	DOWN
ENO4	3.485881	5.005298	1.236053	-4.04942	5.13449535960065e-05	0.002116	Negative	UP
TECR	2.532212	5.593557	1.387182	-4.03232	5.52299068272138e-05	0.002198	Negative	UP
ZEB1	5.424362	4.390477	1.115984	-3.93418	8.34823545662503e-05	0.003211	Negative	UP
MUC5B	4.267382	-5.04949	1.308986	3.857561	0.000115	0.004263	Positive	DOWN
CQ051	4.237999	-5.03961	1.309088	3.849707	0.000118	0.004265	Positive	DOWN
C2D2A	3.609132	5.047783	1.314651	-3.83964	0.000123	0.004309	Negative	UP
VAV2	4.087143	-4.98721	1.314158	3.794981	0.000148	0.005012	Positive	DOWN
FR1L4	3.990704	-4.95314	1.316612	3.762032	0.000169	0.005557	Positive	DOWN
GALK2	4.453859	-5.11065	1.364331	3.745903	0.00018	0.005687	Positive	DOWN
MPP2	4.451971	-5.11005	1.365527	3.742186	0.000182	0.005687	Positive	DOWN
XPO4	3.064803	4.794311	1.283408	-3.73561	0.000187	0.005687	Negative	UP
RNS11	2.563154	5.610598	1.505209	-3.72745	0.000193	0.005723	Negative	UP
ZBT38	4.275672	-5.05185	1.370364	3.6865	0.000227	0.006559	Positive	DOWN
AGAP2	4.192939	-5.02368	1.372973	3.658979	0.000253	0.007127	Positive	DOWN
CAST1	4.144268	-5.00708	1.374319	3.643319	0.000269	0.007395	Positive	DOWN
DUS2L	2.810121	5.743724	1.581449	-3.63194	0.000281	0.007549	Negative	UP
SRPX2	4.058792	-4.97647	1.378376	3.610385	0.000306	0.007841	Positive	DOWN
TPC11	2.426333	5.531766	1.53071	-3.61386	0.000302	0.007841	Negative	UP
FSBP	4.030429	-4.96664	1.378801	3.602144	0.000316	0.00789	Positive	DOWN
IFIH1	2.405568	5.519512	1.534287	-3.59744	0.000321	0.00789	Negative	UP
RPC2	3.945316	-4.93588	1.382148	3.571163	0.000355	0.008544	Positive	DOWN

CSPG4	2.367731	5.496763	1.54221	-3.56421	0.000365	0.008595	Negative	UP
NANO3	4.294385	-5.05817	1.433053	3.52965	0.000416	0.008674	Positive	DOWN
RT09	3.895712	-4.9154	1.388653	3.53969	0.000401	0.008674	Positive	DOWN
FOXM1	2.339087	5.478962	1.549275	-3.53647	0.000406	0.008674	Negative	UP
BAAT	3.865209	-4.90607	1.385838	3.540149	0.0004	0.008674	Positive	DOWN
NC2A	3.845687	-4.89851	1.387479	3.530512	0.000415	0.008674	Positive	DOWN
ZN818	3.802503	-4.88329	1.386544	3.521913	0.000428	0.008674	Positive	DOWN
MOCS1	2.32932	5.472683	1.552829	-3.52433	0.000425	0.008674	Negative	UP
PHRF1	3.34575	4.833359	1.359795	-3.55448	0.000379	0.008674	Negative	UP
MPP3	3.770904	-4.87075	1.388826	3.507099	0.000453	0.008992	Positive	DOWN
ECSIT	3.74981	-4.86288	1.389302	3.500232	0.000465	0.008992	Positive	DOWN
B4GT6	3.748415	-4.86214	1.389696	3.498709	0.000468	0.008992	Positive	DOWN
FRYL	3.724859	-4.85308	1.390633	3.489835	0.000483	0.009143	Positive	DOWN
ARHGI	3.686999	-4.83827	1.392547	3.4744	0.000512	0.00953	Positive	DOWN
TJAP1	3.653043	-4.82554	1.392463	3.46547	0.000529	0.009632	Positive	DOWN
CC186	3.683149	-4.83516	1.396233	3.463001	0.000534	0.009632	Positive	DOWN
ZBTB9	3.630226	-4.81608	1.394728	3.453058	0.000554	0.00984	Positive	DOWN
PRKDC	3.582676	-4.79757	1.395655	3.437501	0.000587	0.010265	Positive	DOWN
C2CD3	4.05299	-4.97171	1.450238	3.428205	0.000608	0.010465	Positive	DOWN
RMXL1	3.955389	-4.9382	1.44974	3.406266	0.000659	0.011176	Positive	DOWN
ACAD9	3.949979	-4.93593	1.450812	3.402186	0.000668	0.01118	Positive	DOWN
PNOC	3.882692	-4.91142	1.453393	3.379278	0.000727	0.011981	Positive	DOWN
KCND1	3.784388	-4.8739	1.459048	3.340467	0.000836	0.013594	Positive	DOWN
CSPG2	3.734626	-4.85618	1.458458	3.329666	0.00087	0.013936	Positive	DOWN
PR15B	3.718633	-4.84996	1.459505	3.323014	0.000891	0.014077	Positive	DOWN

SKOR2	4.069579	-4.98046	1.511748	3.294502	0.000986	0.015333	Positive	DOWN
MOB3C	3.627353	-4.81459	1.462733	3.291501	0.000997	0.015333	Positive	DOWN
NPRL2	3.92604	3.939314	1.203907	-3.27211	0.001067	0.01607	Negative	UP
OR2A7	3.568586	-4.79121	1.465168	3.270074	0.001075	0.01607	Positive	DOWN
CIA30	3.588762	-4.79729	1.46832	3.267197	0.001086	0.01607	Positive	DOWN
ZN365	3.530421	-4.77607	1.466311	3.257205	0.001125	0.016318	Positive	DOWN
S2A4R	4.477169	3.893836	1.196017	-3.25567	0.001131	0.016318	Negative	UP
PK1L3	2.319552	5.466717	1.685389	-3.24359	0.00118	0.016546	Negative	UP
CORA1	3.4948	-4.7612	1.468935	3.241258	0.00119	0.016546	Positive	DOWN
ST32B	3.498986	-4.76288	1.468662	3.243004	0.001183	0.016546	Positive	DOWN
CUL1	3.482489	-4.756	1.469744	3.235941	0.001212	0.016656	Positive	DOWN
NAL14	3.448017	-4.74162	1.471873	3.221486	0.001275	0.017314	Positive	DOWN
CPNE3	2.259555	5.429017	1.699362	-3.19474	0.0014	0.018531	Negative	UP
SYCC	2.268747	5.434553	1.699083	-3.19852	0.001381	0.018531	Negative	UP
LRC58	2.257995	5.427894	1.700489	-3.19196	0.001413	0.018531	Negative	UP
MOD5	3.615182	3.873121	1.221895	-3.16977	0.001526	0.019782	Negative	UP
E2F4	3.687104	-4.83856	1.528555	3.165446	0.001548	0.019855	Positive	DOWN
SRSF1	2.213674	5.399442	1.710782	-3.15613	0.001599	0.020275	Negative	UP
MOK	2.191514	5.384931	1.716613	-3.13695	0.001707	0.021414	Negative	UP
MET16	3.688875	3.826048	1.224649	-3.1242	0.001783	0.022123	Negative	UP
SIN3B	2.162705	5.365613	1.72546	-3.10967	0.001873	0.022994	Negative	UP
PLXB1	3.555275	-4.78331	1.543181	3.099644	0.001938	0.023291	Positive	DOWN
EZH1P	3.861611	3.794843	1.223844	-3.10076	0.00193	0.023291	Negative	UP
RSPH1	3.499643	-4.76316	1.540808	3.091336	0.001993	0.023706	Positive	DOWN
PRRC1	3.998255	3.935947	1.276965	-3.08227	0.002054	0.024191	Negative	UP

PRD15	3.510439	-4.76402	1.548312	3.07691	0.002092	0.024352	Positive	DOWN
DRC11	2.114116	5.33329	1.736496	-3.07129	0.002131	0.024352	Negative	UP
DPOD4	3.460082	-4.74635	1.544888	3.072295	0.002124	0.024352	Positive	DOWN
N4BP1	3.437722	-4.73584	1.548549	3.058243	0.002226	0.025189	Positive	DOWN
TBKB1	3.410344	-4.72536	1.547751	3.053052	0.002265	0.02538	Positive	DOWN
O10A3	3.383997	-4.71403	1.549785	3.041728	0.002352	0.026101	Positive	DOWN
IL23R	4.09546	3.886646	1.279521	-3.03758	0.002385	0.026211	Negative	UP
ADA	3.329088	-4.69056	1.552819	3.020675	0.002522	0.026801	Positive	DOWN
NUP98	5.499946	3.495478	1.155754	-3.02441	0.002491	0.026801	Negative	UP
SMG7	3.340251	-4.69546	1.552107	3.025219	0.002485	0.026801	Positive	DOWN
F120C	3.350704	-4.69772	1.555769	3.019551	0.002532	0.026801	Positive	DOWN
V9175	2.052395	5.290539	1.754288	-3.01578	0.002563	0.026891	Negative	UP
NEAS1	2.047634	5.28708	1.756455	-3.01009	0.002612	0.027153	Negative	UP
PPM1A	4.710404	3.823614	1.273761	-3.00183	0.002684	0.027351	Negative	UP
CAC1E	3.272046	-4.66601	1.555749	2.999203	0.002707	0.027351	Positive	DOWN
CC152	2.69858	4.594748	1.533063	-2.9971	0.002726	0.027351	Negative	UP
ACBG1	3.267668	-4.66471	1.554407	3.000956	0.002691	0.027351	Positive	DOWN
OR2B6	3.257108	-4.65807	1.558969	2.987918	0.002809	0.02747	Positive	DOWN
KLK6	2.83458	4.563464	1.526296	-2.98989	0.002791	0.02747	Negative	UP
INVS	3.249393	-4.65621	1.556674	2.991125	0.00278	0.02747	Positive	DOWN
MYP0	2.968692	4.513526	1.519492	-2.97042	0.002974	0.027707	Negative	UP
HJURP	5.179576	3.061893	1.029754	-2.97342	0.002945	0.027707	Negative	UP
GATD1	3.577369	-4.79437	1.614816	2.968986	0.002988	0.027707	Positive	DOWN
ACON	3.228886	-4.64654	1.558986	2.980489	0.002878	0.027707	Positive	DOWN
SGPP1	3.206713	-4.63691	1.559938	2.9725	0.002954	0.027707	Positive	DOWN

DEN2D	3.197603	-4.6327	1.561008	2.967764	0.003	0.027707	Positive	DOWN
KIF17	3.193991	-4.63135	1.560632	2.96761	0.003001	0.027707	Positive	DOWN
CNO10	2.662631	4.564228	1.540152	-2.96349	0.003042	0.027858	Negative	UP
C5AR1	3.076294	4.483363	1.517979	-2.95351	0.003142	0.027876	Negative	UP
KCNJ3	4.73497	3.46829	1.172496	-2.95804	0.003096	0.027876	Negative	UP
LMAN1	2.771557	4.516778	1.534861	-2.94279	0.003253	0.027876	Negative	UP
NKAI3	3.141134	-4.60695	1.56498	2.943774	0.003242	0.027876	Positive	DOWN
TBC31	4.706052	3.177382	1.07804	-2.94737	0.003205	0.027876	Negative	UP
KCNKH	1.994449	5.248873	1.773863	-2.95901	0.003086	0.027876	Negative	UP
CG069	2.775649	4.530316	1.533731	-2.95379	0.003139	0.027876	Negative	UP
XPO5	3.144581	-4.60895	1.563709	2.947447	0.003204	0.027876	Positive	DOWN
RBM22	3.133501	-4.60374	1.564836	2.941994	0.003261	0.027876	Positive	DOWN
F184B	2.239446	5.416009	1.846389	-2.9333	0.003354	0.028458	Negative	UP
KIBRA	3.100999	-4.58862	1.567278	2.927764	0.003414	0.028758	Positive	DOWN
V6371	2.215726	5.400419	1.853995	-2.91286	0.003581	0.029949	Negative	UP
UBP29	2.839634	4.454734	1.537704	-2.897	0.003767	0.031278	Negative	UP
UBR5	3.383947	-4.7124	1.631427	2.888516	0.003871	0.031472	Positive	DOWN
ASGR1	3.095664	4.411425	1.528832	-2.88549	0.003908	0.031472	Negative	UP
TOP2A	5.383183	-3.0795	1.067804	2.883955	0.003927	0.031472	Positive	DOWN
FLNC	3.359292	-4.70371	1.629542	2.886524	0.003895	0.031472	Positive	DOWN
PCDBF	4.109165	3.430164	1.189182	-2.88447	0.003921	0.031472	Negative	UP
UBP2	2.660743	4.472662	1.552531	-2.88088	0.003966	0.031561	Negative	UP
IGSF3	3.761958	3.754485	1.307874	-2.87068	0.004096	0.032154	Negative	UP
TBC25	3.851749	3.74656	1.305019	-2.87089	0.004093	0.032154	Negative	UP
INY2B	3.310599	-4.6817	1.635519	2.862518	0.004203	0.032608	Positive	DOWN

NPB	4.386873	3.702355	1.293642	-2.86196	0.00421	0.032608	Negative	UP
RU2A	2.938817	-4.51137	1.578928	2.857237	0.004273	0.032877	Positive	DOWN
PRP4B	3.241842	-4.65216	1.637687	2.840688	0.004502	0.034177	Positive	DOWN
RIPL1	5.506825	-3.03852	1.069476	2.841131	0.004495	0.034177	Positive	DOWN
NUDC1	3.228463	-4.6463	1.638671	2.835409	0.004577	0.03452	Positive	DOWN
BAZ1A	3.183239	-4.62639	1.641918	2.817673	0.004837	0.036248	Positive	DOWN
TM215	3.177986	-4.62406	1.6426	2.815084	0.004876	0.036306	Positive	DOWN
ZC3H1	2.577283	4.39918	1.567017	-2.80736	0.004995	0.03695	Negative	UP
BPTF	5.538577	-2.97008	1.063685	2.792254	0.005234	0.038337	Positive	DOWN
ADAT1	2.065035	5.29891	1.898334	-2.79135	0.005249	0.038337	Negative	UP
PININ	3.618571	3.855299	1.38258	-2.78848	0.005296	0.038435	Negative	UP
NACHO	3.086471	-4.58203	1.649293	2.778176	0.005467	0.039427	Positive	DOWN
GON4L	5.256235	-2.9698	1.071291	2.772166	0.005568	0.039913	Positive	DOWN
CPEB1	3.058566	-4.56838	1.653052	2.763604	0.005717	0.040723	Positive	DOWN
GHR	3.050522	-4.56445	1.653784	2.760002	0.00578	0.040922	Positive	DOWN
INT15	2.020385	5.26738	1.912817	-2.75373	0.005892	0.04146	Negative	UP
SOX8	3.020564	-4.55073	1.654484	2.750546	0.00595	0.041611	Positive	DOWN
H4	2.008566	5.259113	1.915885	-2.74501	0.006051	0.042065	Negative	UP
ATRN1	3.242803	3.839942	1.400696	-2.74145	0.006117	0.042268	Negative	UP
SNUT1	2.992389	-4.53705	1.657491	2.737298	0.006195	0.042372	Positive	DOWN
DDX51	4.232629	3.290964	1.202515	-2.73673	0.006205	0.042372	Negative	UP
KPCE	4.86931	2.871469	1.053927	-2.72454	0.006439	0.04371	Negative	UP
TRNP1	1.982056	5.239839	1.925407	-2.72142	0.0065	0.043867	Negative	UP
ERF3B	2.949897	-4.51648	1.660965	2.719193	0.006544	0.043907	Positive	DOWN
C2C2L	5.647916	2.842214	1.047154	-2.71423	0.006643	0.044175	Negative	UP

OVCH1	3.230187	3.809292	1.403908	-2.71335	0.006661	0.044175	Negative	UP
SPB1	2.9247	-4.50459	1.661906	2.710499	0.006718	0.044302	Positive	DOWN
ZN197	2.670264	4.468115	1.661091	-2.68987	0.007148	0.046868	Negative	UP
SP100	2.87726	-4.4804	1.667607	2.686724	0.007216	0.047015	Positive	DOWN
ABCE1	2.879065	-4.48084	1.668812	2.685049	0.007252	0.047015	Positive	DOWN
E41LA	3.964275	-4.94237	1.844332	2.679763	0.007367	0.047497	Positive	DOWN
CIP2A	1.922222	5.195869	1.945494	-2.67072	0.007569	0.048525	Negative	UP
TMF1	3.168655	-4.61859	1.731762	2.666988	0.007653	0.048796	Positive	DOWN

IEFVPTC, invasive encapsulated follicular variant of papillary thyroid carcinoma.