

## Effectiveness of BMP inhibition on melanoma

**Supplementary Table 1.** The complete list of altered proteins identified in LDN193189 treated melanoma

7.81305482766309	<b>Car2</b>	PREDICTED: carbonic anhydrase 2 isoform X1 [Mus musculus]
6.06124047893559	<b>Hbb-bt</b>	hemoglobin, beta adult t chain [Mus musculus]
4.56571440714456	<b>Hba-a2</b>	PREDICTED: parvalbumin alpha isoform X1 [Mus musculus]
4.24275326424469	<b>Slc4a1</b>	hemoglobin alpha, adult chain 2 [Mus musculus]
3.95263578088825	<b>Scrn3</b>	PREDICTED: secernin-3 isoform X1 [Mus musculus]
3.93318186278628	<b>Fga</b>	band 3 anion transport protein [Mus musculus]
3.58299237700525	<b>Fgg</b>	fibrinogen alpha chain isoform 1 preproprotein [Mus musculus]
3.42715246764455	<b>Fgb</b>	fibrinogen gamma chain isoform 2 precursor [Mus musculus]
3.36017529547672	<b>Golt1b</b>	fibrinogen beta chain preproprotein [Mus musculus]
3.15549244182021	<b>Car1</b>	troponin C, skeletal muscle [Mus musculus]
3.03640574092216	<b>Spta1</b>	creatine kinase M-type [Mus musculus]
2.84005173248478	<b>Sptb</b>	thymosin beta-4 [Mus musculus]
2.81677406997486	<b>Dnttip1</b>	myosin regulatory light chain 2, skeletal muscle isoform [Mus musculus]
2.79564585151014	<b>Tubb1</b>	PREDICTED: gamma-enolase isoform X1 [Mus musculus]
2.76151187643348	<b>Bpgm</b>	non-secretory ribonuclease precursor [Mus musculus]
2.65405284423052	<b>Alad</b>	PREDICTED: troponin T, fast skeletal muscle isoform X27 [Mus musculus]
2.61927869199693	<b>Prpf4b</b>	myosin-4 [Mus musculus]
2.5349238662671	<b>Slc14a1</b>	keratin, type II cytoskeletal 79 [Mus musculus]
2.53202478522876	<b>Slc16a1</b>	PREDICTED: myosin light chain 1/3, skeletal muscle isoform isoform X1 [Mus musculus]
2.49592735040191	<b>Ostc</b>	alpha-actinin-3 [Mus musculus]
2.47485467430782	<b>Ect2</b>	PREDICTED: acyl carrier protein, mitochondrial isoform X1 [Mus musculus]
2.4596068288634	<b>Itga2b</b>	carbonic anhydrase 3 [Mus musculus]
2.44405817814349	<b>Ank1</b>	collagen alpha-1(III) chain preproprotein [Mus musculus]
2.39602219845429	<b>LOC100862446</b>	PREDICTED: vesicle transport protein GOT1B isoform X1 [Mus musculus]
2.37804180317328	<b>Aldh1a1</b>	spectrin alpha chain, erythrocytic 1 [Mus musculus]
2.35847285488141	<b>Apcs</b>	carbonic anhydrase 1 [Mus musculus]
2.29161971393249	<b>Ndufab1</b>	PREDICTED: troponin I, fast skeletal muscle isoform X1 [Mus musculus]
2.23788619410039	<b>Fgf1</b>	eosinophil peroxidase precursor [Mus musculus]
2.21915822259405	<b>Hagh</b>	caldesmon-1 precursor [Mus musculus]
2.14473456862074	<b>Orm2</b>	monocarboxylate transporter 1 [Mus musculus]
2.12192643753893	<b>Vtn</b>	tubulin beta-1 chain [Mus musculus]
2.09986917063155	<b>Aqp1</b>	spectrin beta chain, erythrocytic [Mus musculus]
2.09094170616422	<b>Slc2a3</b>	PREDICTED: beta-enolase isoform X1 [Mus musculus]
2.08889989616192	<b>Hbb-b1</b>	tubulin alpha-1C chain [Mus musculus]
2.08685223181098	<b>Dhx36</b>	deoxynucleotidyltransferase terminal-interacting protein 1 [Mus musculus]
2.08427266201531	<b>Itgb3</b>	uncharacterized protein LOC243944 [Mus musculus]
2.07671205176147	<b>Arl1</b>	PREDICTED: transmembrane protein 132A isoform X1 [Mus musculus]
2.04460885403631	<b>Rfc1</b>	PREDICTED: myosin-binding protein C, fast-type isoform X1 [Mus musculus]
1.98944551920491	<b>Blvrb</b>	serum amyloid P-component precursor [Mus musculus]
1.9818324033103	<b>Orm1</b>	PREDICTED: sarcoplasmic/endoplasmic reticulum calcium ATPase 1 isoform X1 [Mus musculus]
1.98028070769476	<b>Itih4</b>	PREDICTED: serine/threonine-protein kinase PRP4 homolog isoform X1 [Mus musculus]
1.97770488665627	<b>4930433111Rik</b>	protein ECT2 isoform 1 [Mus musculus]
1.94998876063832	<b>2310035C23Rik</b>	triadin [Mus musculus]
1.94724193081876	<b>Dock9</b>	hemoglobin subunit beta-1 [Mus musculus]
1.94690636231881	<b>Epb41</b>	tropomyosin beta chain isoform Tpm2.2st [Mus musculus]
1.94639105063485	<b>Serpina10</b>	bisphosphoglycerate mutase [Mus musculus]
1.93512936923832	<b>Slc45a2</b>	decorin preproprotein [Mus musculus]
1.92523830576195	<b>Fads1</b>	alpha-1-acid glycoprotein 2 precursor [Mus musculus]
1.91893687067975	<b>Ube2l6</b>	tropomyosin alpha-1 chain isoform Tpm1.13 [Mus musculus]
1.89658466131713	<b>Prdx2</b>	alpha-1-acid glycoprotein 1 precursor [Mus musculus]
1.88673340356257	<b>Txndc9</b>	OTU domain-containing protein 4 isoform 1 [Mus musculus]
1.88099259843325	<b>Apoc1</b>	trimeric intracellular cation channel type A [Mus musculus]
1.85696344820999	<b>Myh11</b>	PREDICTED: delta-aminolevulinic acid dehydratase isoform X1 [Mus musculus]
1.85311593682075	<b>Mpp1</b>	calinin isoform a [Mus musculus]

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1.83428106869167	<b>Epb42</b>	membrane-associated transporter protein [Mus musculus]
1.81662426569236	<b>Mbl2</b>	PREDICTED: nebulin isoform X22 [Mus musculus]
1.81203698050939	<b>Fn1</b>	collagen alpha-2(V) chain preproprotein [Mus musculus]
1.80675081093241	<b>Serpina3n</b>	PREDICTED: LIM domain-binding protein 3 isoform X2 [Mus musculus]
1.78271167040169	<b>Exosc7</b>	urea transporter 1 isoform a [Mus musculus]
1.77575944216558	<b>Mcmbp</b>	ATP-dependent RNA helicase DHX36 [Mus musculus]
1.77318792116787	<b>Trip11</b>	guanylate-binding protein 1 [Mus musculus]
1.76360890713569	<b>Src</b>	ADP-ribosylation factor-like protein 1 [Mus musculus]
1.74928009746887	<b>Rpf2</b>	PREDICTED: solute carrier family 2, facilitated glucose transporter member 3 isoform X1 [Mus musculus]
1.74108650104836	<b>Hmbs</b>	macrophage mannose receptor 1 precursor [Mus musculus]
1.71524157691522	<b>Serpina3m</b>	vitronectin precursor [Mus musculus]
1.71203226188581	<b>Ift20</b>	pleckstrin homology domain-containing family O member 2 [Mus musculus]
1.71117309882143	<b>Bcat2</b>	PREDICTED: fibroblast growth factor 1 isoform X1 [Mus musculus]
1.71079727944208	<b>Hpx</b>	PREDICTED: replication factor C subunit 1 isoform X1 [Mus musculus]
1.70903222637221	<b>Isg15</b>	protein MANBAL [Mus musculus]
1.70741261306143	<b>C3</b>	hydroxyacylglutathione hydrolase, mitochondrial isoform 1 precursor [Mus musculus]
1.70735261431771	<b>Rab3d</b>	PREDICTED: ankyrin-1 isoform X1 [Mus musculus]
1.70577785711834	<b>Isoc2a</b>	PREDICTED: ferritin light chain 1 [Mus musculus]
1.69383910305866	<b>Psmid6</b>	PREDICTED: myomesin-2 isoform X1 [Mus musculus]
1.68533985059487	<b>Abcc10</b>	syntaxin-5 [Mus musculus]
1.66541926615576	<b>Cpb2</b>	oligosaccharyltransferase complex subunit OSTC [Mus musculus]
1.65409604102772	<b>Tmtc3</b>	PREDICTED: Golli-Mbp isoform X1 [Mus musculus]
1.6524798655299	<b>Tuba1c</b>	myomesin-1 isoform 1 [Mus musculus]
1.64517612150469	<b>Cyp4f16</b>	60S ribosomal protein L22-like 1 [Mus musculus]
1.64514809083809	<b>Tmem132a</b>	PREDICTED: myosin-6 isoform X1 [Mus musculus]
1.64495987438423	<b>Krt79</b>	PREDICTED: branched-chain-amino-acid aminotransferase, mitochondrial isoform X1 [Mus musculus]
1.63793501525199	<b>Plscr1</b>	adenylate kinase isoenzyme 1 isoform 1 [Mus musculus]
1.62542498919982	<b>Ndc1</b>	integrin alpha-IIb precursor [Mus musculus]
1.62055316050834	<b>Vwa8</b>	60S ribosomal protein L35a [Mus musculus]
1.61806184247657	<b>Pzp</b>	keratin, type II cytoskeletal 5 [Mus musculus]
1.6164903680189	<b>Sart3</b>	retinal dehydrogenase 1 [Mus musculus]
1.60244752487675	<b>Stra13</b>	PREDICTED: neuronal proto-oncogene tyrosine-protein kinase Src isoform X1 [Mus musculus]
1.60115550986864	<b>Pip4k2a</b>	mannose-binding protein C precursor [Mus musculus]
1.59477620425023	<b>Lrg1</b>	interleukin-1 receptor accessory protein isoform d precursor [Mus musculus]
1.59377053226796	<b>Acox1</b>	glycogen phosphorylase, muscle form [Mus musculus]
1.59359630629501	<b>Orc4</b>	aquaporin-1 [Mus musculus]
1.58760119591581	<b>Otud4</b>	PREDICTED: UBX domain-containing protein 4 isoform X1 [Mus musculus]
1.58304318949922	<b>Rpl35a</b>	PDZ and LIM domain protein 7 isoform a [Mus musculus]
1.57468510015356	<b>Stx5a</b>	PREDICTED: titin isoform X1 [Mus musculus]
1.57417005813389	<b>Camk1</b>	PREDICTED: thioredoxin domain-containing protein 9 isoform X1 [Mus musculus]
1.57193790845699	<b>Noc4l</b>	PREDICTED: protein 4.1 isoform X12 [Mus musculus]
1.56833469118492	<b>Mrc1</b>	flavin reductase (NADPH) isoform 1 [Mus musculus]
1.56695057608567	<b>Aldh8a1</b>	fatty acid desaturase 1 [Mus musculus]
1.56299583599738	<b>Ii1rap</b>	PREDICTED: keratin, type I cytoskeletal 10 isoform X1 [Mus musculus]
1.55861838556696	<b>Pklr</b>	integrin beta-3 precursor [Mus musculus]
1.54927688527601	<b>Apoc3</b>	isochorismatase domain-containing protein 2A precursor [Mus musculus]
1.54141089097304	<b>Stk24</b>	UDP-glucuronosyltransferase 1-1 precursor [Mus musculus]
1.54023167496475	<b>Hmgcs1</b>	PREDICTED: transmembrane and TPR repeat-containing protein 3 isoform X1 [Mus musculus]
1.54018214293489	<b>Enpp4</b>	sodium channel subunit beta-2 precursor [Mus musculus]
1.53504687297477	<b>F10</b>	PREDICTED: liH domain and HEAT repeat-containing protein KIAA1468 isoform X1 [Mus musculus]
1.52947669951357	<b>Cox7a2</b>	xanthine dehydrogenase/oxidase [Mus musculus]
1.52502889768214	<b>Serpinc1</b>	PREDICTED: fibrillin-1 isoform X1 [Mus musculus]
1.52488349886559	<b>Ppp1ca</b>	cytochrome c oxidase subunit 7A2, mitochondrial precursor [Mus musculus]
1.52416889688743	<b>Urod</b>	protein Z-dependent protease inhibitor isoform 1 precursor [Mus musculus]
1.52338650774788	<b>Itih3</b>	RNA-binding protein PNO1 [Mus musculus]
1.52332120235198	<b>Cat</b>	PREDICTED: 5-oxoprolinase isoform X1 [Mus musculus]
1.52014117931161	<b>Clu</b>	PREDICTED: ras GTPase-activating protein-binding protein 2 isoform X1 [Mus musculus]

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1.51997269916242	Gclm	PREDICTED: metal-response element-binding transcription factor 2 isoform X1 [Mus musculus]
1.51276287772238	Apoa1	PREDICTED: sphingomyelin phosphodiesterase 4 isoform X1 [Mus musculus]
1.50971038308367	Sf1	inter alpha-trypsin inhibitor, heavy chain 4 isoform 1 precursor [Mus musculus]
1.50969855447155	Hpn	PREDICTED: ras-related protein Rab-3D isoform X1 [Mus musculus]
1.50618288043433	Tmx3	protein S100-A1 [Mus musculus]
1.50098888986133	Fam213a	cathepsin S isoform 1 preproprotein [Mus musculus]
0.594325043716454	Tfeb	PREDICTED: transmembrane emp24 domain-containing protein 2 [Mus musculus]
0.583816277324409	Gbp6	alpha-1-antitrypsin 1-1 isoform 2 [Mus musculus]
0.582439745206939	Otud6b	proteasome assembly chaperone 1 [Mus musculus]
0.558059366397443	Serpina3c	inward rectifier potassium channel 13 [Mus musculus]
0.537792984111883	Hmgcn2	serine protease inhibitor A3K precursor [Mus musculus]
0.527877109831677	Hmga1	heat shock protein beta-1 [Mus musculus]
0.485492101444739	Hspb1	haptoglobin precursor [Mus musculus]
0.477186279715409	Hacd2	histone H2A type 2-A [Mus musculus]
0.361496834078707	Hist2h2aa2	alpha-1-antitrypsin 1-5 precursor [Mus musculus]
0.355364907938917	Serpina1e	transcription factor EB isoform a [Mus musculus]
0.334715833423526	Hmga1	PREDICTED: YY1-associated factor 2 isoform X1 [Mus musculus]
0.286079020941757	Mt1	metallothionein-1 [Mus musculus]
0.276098550548476	Ccdc126	coiled-coil domain-containing protein 126 isoform 1 precursor [Mus musculus]
0.266850130279332	Mt2	metallothionein-2 [Mus musculus]

The data obtained for LC-MS/MS was analyzed using Proteome discoverer 2.1, which compares the LC-MS/MS data against mouse database. This table shows the altered proteins with a relative abundance of more than 1.5 times (red color) and lower than 0.6 times (green color) with their gene symbol, and full form as compared in LDN193189 treated v/s untreated melanoma tumor.