

## GO terms of phosphoproteins decreased by dDAVP

<u>Input</u>	<u>Gene Symbol</u>	<u>GO category</u>	<u>GO Term</u>
NP_001019962	Epn3	component	cell cortex
NP_001019962	Epn3	component	clathrin-coated vesicle
NP_001019962	Epn3	component	cytoplasm
NP_001019962	Epn3	component	cytoplasmic vesicle
NP_001019962	Epn3	component	nucleus
NP_001019962	Epn3	component	perinuclear region of cytoplasm
NP_001019962	Epn3	function	lipid binding
NP_001019962	Epn3	process	not classified
NP_001101454	Pdik1l	component	not classified
NP_001101454	Pdik1l	function	not classified
NP_001101454	Pdik1l	process	not classified
NP_001124461	Ptges3	component	cellular_component
NP_001124461	Ptges3	component	cytoplasm
NP_001124461	Ptges3	function	isomerase activity
NP_001124461	Ptges3	function	prostaglandin-E synthase activity
NP_001124461	Ptges3	function	unfolded protein binding
NP_001124461	Ptges3	process	fatty acid biosynthetic process
NP_001124461	Ptges3	process	prostaglandin biosynthetic process
NP_001129068	Agfg1	component	cytoplasmic membrane-bounded vesicle
NP_001129068	Agfg1	component	nucleus
NP_001129068	Agfg1	function	ARF GTPase activator activity
NP_001129068	Agfg1	function	DNA binding
NP_001129068	Agfg1	function	metal ion binding
NP_001129068	Agfg1	function	zinc ion binding
NP_001129068	Agfg1	process	cell differentiation
NP_001129068	Agfg1	process	multicellular organismal development
NP_001129068	Agfg1	process	regulation of ARF GTPase activity
NP_001129068	Agfg1	process	spermatogenesis
NP_001129068	Agfg1	process	transport
NP_037041	Aqp2	component	apical plasma membrane
NP_037041	Aqp2	component	apical plasma membrane
NP_037041	Aqp2	component	apical plasma membrane
NP_037041	Aqp2	component	basolateral plasma membrane
NP_037041	Aqp2	component	cell fraction
NP_037041	Aqp2	component	clathrin-coated vesicle
NP_037041	Aqp2	component	cytoplasm
NP_037041	Aqp2	component	early endosome
NP_037041	Aqp2	component	exocytic vesicle
NP_037041	Aqp2	component	integral to membrane
NP_037041	Aqp2	component	lysosome
NP_037041	Aqp2	component	membrane fraction
NP_037041	Aqp2	component	membrane fraction
NP_037041	Aqp2	component	plasma membrane
NP_037041	Aqp2	component	plasma membrane
NP_037041	Aqp2	component	protein complex
NP_037041	Aqp2	component	recycling endosome
NP_037041	Aqp2	component	recycling endosome
NP_037041	Aqp2	component	rough endoplasmic reticulum
NP_037041	Aqp2	component	trans-Golgi network
NP_037041	Aqp2	function	actin binding
NP_037041	Aqp2	function	protein binding
NP_037041	Aqp2	function	transporter activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	process	actin filament depolymerization
NP_037041	Aqp2	process	aging
NP_037041	Aqp2	process	apoptosis
NP_037041	Aqp2	process	cell volume homeostasis

NP_037041	Aqp2	process	cellular response to water deprivation
NP_037041	Aqp2	process	cellular response to water deprivation
NP_037041	Aqp2	process	female pregnancy
NP_037041	Aqp2	process	hyperosmotic response
NP_037041	Aqp2	process	positive regulation of calcium ion transport
NP_037041	Aqp2	process	renal water transport
NP_037041	Aqp2	process	renal water transport
NP_037041	Aqp2	process	response to calcium ion
NP_037041	Aqp2	process	response to glucagon stimulus
NP_037041	Aqp2	process	response to hormone stimulus
NP_037041	Aqp2	process	response to lipopolysaccharide
NP_037041	Aqp2	process	response to lithium ion
NP_037041	Aqp2	process	response to salt stress
NP_037041	Aqp2	process	response to starvation
NP_037041	Aqp2	process	response to water deprivation
NP_037041	Aqp2	process	transport
NP_037041	Aqp2	process	water homeostasis
NP_037041	Aqp2	process	water transport
NP_037041	Aqp2	process	water transport
NP_037041	Aqp2	process	water transport
NP_110484	Lyn	component	Golgi apparatus
NP_110484	Lyn	component	alpha2-beta1 integrin complex
NP_110484	Lyn	component	cell-cell adherens junction
NP_110484	Lyn	component	cytoplasm
NP_110484	Lyn	component	cytosol
NP_110484	Lyn	component	membrane fraction
NP_110484	Lyn	component	membrane raft
NP_110484	Lyn	component	membrane raft
NP_110484	Lyn	component	mitochondrial crista
NP_110484	Lyn	component	mitochondrial intermembrane space
NP_110484	Lyn	component	mitochondrial membrane
NP_110484	Lyn	component	nucleus
NP_110484	Lyn	component	perinuclear region of cytoplasm
NP_110484	Lyn	component	plasma membrane
NP_110484	Lyn	component	plasma membrane
NP_110484	Lyn	component	postsynaptic density
NP_110484	Lyn	function	SH3 domain binding
NP_110484	Lyn	function	enzyme binding
NP_110484	Lyn	function	gamma-tubulin binding
NP_110484	Lyn	function	glycosphingolipid binding
NP_110484	Lyn	function	integrin binding
NP_110484	Lyn	function	kinase activity
NP_110484	Lyn	function	phosphoprotein binding
NP_110484	Lyn	function	platelet-derived growth factor receptor binding
NP_110484	Lyn	function	protein binding
NP_110484	Lyn	function	protein binding
NP_110484	Lyn	function	protein complex binding
NP_110484	Lyn	function	protein complex binding
NP_110484	Lyn	function	protein kinase activity
NP_110484	Lyn	function	protein tyrosine kinase activity
NP_110484	Lyn	function	protein tyrosine kinase activity
NP_110484	Lyn	function	protein tyrosine kinase activity
NP_110484	Lyn	function	receptor binding
NP_110484	Lyn	function	ubiquitin protein ligase binding
NP_110484	Lyn	process	B cell receptor signaling pathway
NP_110484	Lyn	process	B cell receptor signaling pathway
NP_110484	Lyn	process	cellular response to extracellular stimulus
NP_110484	Lyn	process	cellular response to heat
NP_110484	Lyn	process	cytokine secretion
NP_110484	Lyn	process	erythrocyte differentiation

NP_110484	Lyn	process	histamine secretion by mast cell
NP_110484	Lyn	process	intracellular signaling cascade
NP_110484	Lyn	process	intracellular signaling cascade
NP_110484	Lyn	process	oligodendrocyte development
NP_110484	Lyn	process	peptidyl-tyrosine phosphorylation
NP_110484	Lyn	process	peptidyl-tyrosine phosphorylation
NP_110484	Lyn	process	positive regulation of Fc receptor mediated stimulatory signaling pathway
NP_110484	Lyn	process	positive regulation of cell proliferation
NP_110484	Lyn	process	positive regulation of glial cell proliferation
NP_110484	Lyn	process	positive regulation of oligodendrocyte progenitor proliferation
NP_110484	Lyn	process	positive regulation of phosphorylation
NP_110484	Lyn	process	positive regulation of tyrosine phosphorylation of STAT protein
NP_110484	Lyn	process	protein amino acid autophosphorylation
NP_110484	Lyn	process	regulation of release of sequestered calcium ion into cytosol
NP_110484	Lyn	process	response to amino acid stimulus
NP_110484	Lyn	process	response to axon injury
NP_110484	Lyn	process	response to carbohydrate stimulus
NP_110484	Lyn	process	response to drug
NP_110484	Lyn	process	response to hormone stimulus
NP_110484	Lyn	process	response to insulin stimulus
NP_110484	Lyn	process	response to organic cyclic substance
NP_110484	Lyn	process	response to peptide hormone stimulus
NP_110484	Lyn	process	response to protein stimulus
NP_110484	Lyn	process	response to sterol depletion
NP_110484	Lyn	process	response to toxin
NP_445747	Cast	component	not classified
NP_445747	Cast	function	protein binding
NP_445747	Cast	process	myoblast fusion
NP_445747	Cast	process	negative regulation of catalytic activity
NP_445747	Cast	process	regulation of protein catabolic process
NP_446225	Tjp2	component	cytoplasm
NP_446225	Tjp2	component	gap junction
NP_446225	Tjp2	component	plasma membrane
NP_446225	Tjp2	component	plasma membrane
NP_446225	Tjp2	component	tight junction
NP_446225	Tjp2	component	tight junction
NP_446225	Tjp2	function	protein C-terminus binding
NP_446225	Tjp2	function	protein binding
NP_446225	Tjp2	process	response to organic substance
NP_742005	Canx	component	axon
NP_742005	Canx	component	cell soma
NP_742005	Canx	component	cytoplasm
NP_742005	Canx	component	dendrite cytoplasm
NP_742005	Canx	component	dendritic spine
NP_742005	Canx	component	endoplasmic reticulum
NP_742005	Canx	component	endoplasmic reticulum
NP_742005	Canx	component	endoplasmic reticulum
NP_742005	Canx	component	integral to membrane
NP_742005	Canx	component	integral to membrane
NP_742005	Canx	component	melanosome
NP_742005	Canx	component	membrane
NP_742005	Canx	component	ribosome
NP_742005	Canx	component	rough endoplasmic reticulum
NP_742005	Canx	function	calcium ion binding
NP_742005	Canx	function	protein binding
NP_742005	Canx	function	protein binding
NP_742005	Canx	function	protein binding
NP_742005	Canx	function	sugar binding
NP_742005	Canx	function	unfolded protein binding
NP_742005	Canx	process	aging

NP_742005	Canx	process	protein folding
NP_786937	Hsp90aa1	component	cytoplasm
NP_786937	Hsp90aa1	component	cytoplasm
NP_786937	Hsp90aa1	component	cytosol
NP_786937	Hsp90aa1	component	intracellular
NP_786937	Hsp90aa1	component	intracellular
NP_786937	Hsp90aa1	function	ATP binding
NP_786937	Hsp90aa1	function	ATP binding
NP_786937	Hsp90aa1	function	TPR domain binding
NP_786937	Hsp90aa1	function	nitric-oxide synthase regulator activity
NP_786937	Hsp90aa1	function	nitric-oxide synthase regulator activity
NP_786937	Hsp90aa1	function	protein binding
NP_786937	Hsp90aa1	function	protein binding
NP_786937	Hsp90aa1	function	protein homodimerization activity
NP_786937	Hsp90aa1	function	protein homodimerization activity
NP_786937	Hsp90aa1	function	unfolded protein binding
NP_786937	Hsp90aa1	function	unfolded protein binding
NP_786937	Hsp90aa1	process	cellular chaperone-mediated protein complex assembly
NP_786937	Hsp90aa1	process	mitochondrial outer membrane translocase complex assembly
NP_786937	Hsp90aa1	process	positive regulation of nitric oxide biosynthetic process
NP_786937	Hsp90aa1	process	positive regulation of nitric oxide biosynthetic process
NP_786937	Hsp90aa1	process	protein folding
NP_786937	Hsp90aa1	process	protein folding
NP_786937	Hsp90aa1	process	response to stress
NP_786941	Psip1	component	cytosol
NP_786941	Psip1	function	not classified
NP_786941	Psip1	process	initiation of viral infection
NP_786941	Psip1	process	provirus integration
NP_789826	Sept9	component	cellular_component
NP_789826	Sept9	component	microtubule
NP_789826	Sept9	component	perinuclear region of cytoplasm
NP_789826	Sept9	component	stress fiber
NP_789826	Sept9	function	ATP binding
NP_789826	Sept9	function	DNA binding
NP_789826	Sept9	function	DNA topoisomerase (ATP-hydrolyzing) activity
NP_789826	Sept9	function	GTP binding
NP_789826	Sept9	function	molecular_function
NP_789826	Sept9	function	protein binding
NP_789826	Sept9	process	DNA topological change
NP_789826	Sept9	process	biological_process
NP_789826	Sept9	process	cell cycle
NP_789826	Sept9	process	protein heterooligomerization
NP_808877	Slc14a2	component	integral to membrane
NP_808877	Slc14a2	function	copper ion binding
NP_808877	Slc14a2	function	protein binding
NP_808877	Slc14a2	function	urea transmembrane transporter activity
NP_808877	Slc14a2	function	urea transmembrane transporter activity
NP_808877	Slc14a2	function	urea transmembrane transporter activity
NP_808877	Slc14a2	process	oxidation reduction
NP_808877	Slc14a2	process	response to water deprivation
NP_808877	Slc14a2	process	urea transport
NP_808877	Slc14a2	process	urea transport
NP_835196	Abca1	component	Golgi apparatus
NP_835196	Abca1	component	Golgi apparatus
NP_835196	Abca1	component	caveola
NP_835196	Abca1	component	integral to plasma membrane
NP_835196	Abca1	component	integral to plasma membrane
NP_835196	Abca1	component	intracellular membrane-bounded organelle
NP_835196	Abca1	component	membrane fraction
NP_835196	Abca1	component	membrane raft

NP_835196	Abca1	component	phagocytic vesicle
NP_835196	Abca1	component	plasma membrane
NP_835196	Abca1	component	plasma membrane
NP_835196	Abca1	component	plasma membrane
NP_835196	Abca1	function	ATP binding
NP_835196	Abca1	function	ATPase activity
NP_835196	Abca1	function	ATPase activity, coupled to transmembrane movement of substances
NP_835196	Abca1	function	ATPase activity, coupled to transmembrane movement of substances
NP_835196	Abca1	function	anion transmembrane transporter activity
NP_835196	Abca1	function	anion transmembrane transporter activity
NP_835196	Abca1	function	apolipoprotein A-I receptor activity
NP_835196	Abca1	function	cholesterol transporter activity
NP_835196	Abca1	function	cholesterol transporter activity
NP_835196	Abca1	function	high-density lipoprotein binding
NP_835196	Abca1	function	high-density lipoprotein receptor binding
NP_835196	Abca1	function	nucleotide binding
NP_835196	Abca1	function	phospholipid transporter activity
NP_835196	Abca1	function	phospholipid transporter activity
NP_835196	Abca1	function	protein binding
NP_835196	Abca1	function	protein binding
NP_835196	Abca1	function	protein binding
NP_835196	Abca1	function	protein binding
NP_835196	Abca1	function	small GTPase binding
NP_835196	Abca1	function	syntaxin-13 binding
NP_835196	Abca1	process	Cdc42 protein signal transduction
NP_835196	Abca1	process	G-protein coupled receptor protein signaling pathway
NP_835196	Abca1	process	cholesterol efflux
NP_835196	Abca1	process	cholesterol efflux
NP_835196	Abca1	process	cholesterol homeostasis
NP_835196	Abca1	process	cholesterol metabolic process
NP_835196	Abca1	process	cholesterol metabolic process
NP_835196	Abca1	process	cholesterol transport
NP_835196	Abca1	process	cholesterol transport
NP_835196	Abca1	process	cholesterol transport
NP_835196	Abca1	process	cholesterol transport
NP_835196	Abca1	process	endosome transport
NP_835196	Abca1	process	high-density lipoprotein particle assembly
NP_835196	Abca1	process	interleukin-1 beta secretion
NP_835196	Abca1	process	intracellular cholesterol transport
NP_835196	Abca1	process	lipoprotein biosynthetic process
NP_835196	Abca1	process	lipoprotein biosynthetic process
NP_835196	Abca1	process	lipoprotein metabolic process
NP_835196	Abca1	process	lysosome organization
NP_835196	Abca1	process	peptide secretion
NP_835196	Abca1	process	peptide secretion
NP_835196	Abca1	process	phagocytosis, engulfment
NP_835196	Abca1	process	phagocytosis, engulfment
NP_835196	Abca1	process	phospholipid efflux
NP_835196	Abca1	process	phospholipid efflux
NP_835196	Abca1	process	phospholipid homeostasis
NP_835196	Abca1	process	phospholipid translocation
NP_835196	Abca1	process	phospholipid translocation
NP_835196	Abca1	process	phospholipid transport
NP_835196	Abca1	process	phospholipid transport
NP_835196	Abca1	process	platelet dense granule organization
NP_835196	Abca1	process	positive regulation of cAMP biosynthetic process
NP_835196	Abca1	process	protein amino acid lipidation
NP_835196	Abca1	process	protein amino acid lipidation
NP_835196	Abca1	process	response to drug
NP_835196	Abca1	process	response to nutrient
NP_835196	Abca1	process	reverse cholesterol transport

NP_835196	Abca1	process	reverse cholesterol transport
XP_001053711	Nxf3	component	cytoplasm
XP_001053711	Nxf3	component	intracellular
XP_001053711	Nxf3	component	nuclear RNA export factor complex
XP_001053711	Nxf3	component	nucleus
XP_001053711	Nxf3	component	nucleus
XP_001053711	Nxf3	function	mRNA binding
XP_001053711	Nxf3	function	nucleotide binding
XP_001053711	Nxf3	function	protein binding
XP_001053711	Nxf3	process	mRNA transport
XP_001053711	Nxf3	process	poly(A)+ mRNA export from nucleus
XP_001053711	Nxf3	process	transport
XP_001059640	LOC498453	component	nucleus
XP_001059640	LOC498453	function	DNA binding
XP_001059640	LOC498453	function	RNA polymerase II transcription factor activity
XP_001059640	LOC498453	function	protein binding
XP_001059640	LOC498453	function	transcription elongation regulator activity
XP_001059640	LOC498453	function	translation elongation factor activity
XP_001059640	LOC498453	function	zinc ion binding
XP_001059640	LOC498453	process	RNA elongation
XP_001059640	LOC498453	process	regulation of transcription from RNA polymerase II promoter
XP_001071043	Sntb2	component	synapse
XP_001071043	Sntb2	function	protein binding
XP_001071043	Sntb2	process	not classified
XP_001078032	Ahnak	component	not classified
XP_001078032	Ahnak	function	protein binding
XP_001078032	Ahnak	process	not classified
XP_237286	Tns1	component	not classified
XP_237286	Tns1	function	protein binding
XP_237286	Tns1	process	intracellular signaling cascade
XP_341257	RGD1564174	component	not classified
XP_341257	RGD1564174	function	protein binding
XP_341257	RGD1564174	process	intracellular signaling cascade

Statistic: component

cytoplasm	9
plasma membrane	9
nucleus	6
not classified	5
integral to membran	4
membrane fraction	4
perinuclear region o	3
apical plasma memt	3
Golgi apparatus	3
intracellular	3
cytosol	3
membrane raft	3
endoplasmic reticul	3
clathrin-coated vesic	2
cellular_component	2
integral to plasma m	2
recycling endosome	2
rough endoplasmic i	2
tight junction	2
cell cortex	1
postsynaptic density	1
mitochondrial memb	1
mitochondrial interm	1
mitochondrial crista	1
melanosome	1

membrane	1
cell-cell adherens ju	1
alpha2-beta1 integri	1
ribosome	1
trans-Golgi network	1
gap junction	1
axon	1
protein complex	1
nuclear RNA export	1
caveola	1
lysosome	1
cell soma	1
exocytic vesicle	1
early endosome	1
cell fraction	1
basolateral plasma r	1
microtubule	1
cytoplasmic membr	1
dendrite cytoplasm	1
intracellular membr	1
stress fiber	1
phagocytic vesicle	1
cytoplasmic vesicle	1
synapse	1
dendritic spine	1
Total =	101

Statistic: function	
protein binding	22
unfolded protein bin	4
ATP binding	4
DNA binding	3
water channel activi	3
protein tyrosine kina	3
urea transmembran	3
not classified	2
nucleotide binding	2
zinc ion binding	2
protein complex binc	2
cholesterol transpor	2
nitric-oxide synthase	2
anion transmembrar	2
ATPase activity, cou	2
protein homodimeriz	2
phospholipid transp	2
lipid binding	1
molecular_function	1
GTP binding	1
DNA topoisomerase	1
copper ion binding	1
ATPase activity	1
TPR domain binding	1
RNA polymerase II t	1
sugar binding	1
calcium ion binding	1
protein C-terminus t	1
ubiquitin protein liga	1
receptor binding	1
small GTPase bindir	1
protein kinase activi	1

apolipoprotein A-I re	1
platelet-derived grov	1
phosphoprotein binc	1
kinase activity	1
integrin binding	1
glycosphingolipid bir	1
gamma-tubulin bindi	1
enzyme binding	1
SH3 domain binding	1
syntaxin-13 binding	1
transporter activity	1
translation elongatio	1
actin binding	1
high-density lipoprot	1
metal ion binding	1
mRNA binding	1
ARF GTPase activa	1
transcription elongat	1
prostaglandin-E syn	1
isomerase activity	1
high-density lipoprot	1
Total =	98

Statistic: process	
not classified	4
intracellular signalin	4
transport	3
water transport	3
protein folding	3
cholesterol transport	3
aging	2
protein amino acid li	2
cellular response to	2
renal water transpor	2
phospholipid transp	2
phospholipid translo	2
response to hormon	2
phospholipid efflux	2
phagocytosis, engulf	2
peptide secretion	2
response to water di	2
B cell receptor signa	2
lipoprotein biosynthe	2
peptidyl-tyrosine ph	2
response to drug	2
reverse cholesterol t	2
positive regulation o	2
urea transport	2
cholesterol metaboli	2
cholesterol efflux	2
regulation of transcr	1
G-protein coupled re	1
Cdc42 protein signa	1
cholesterol homeost	1
oxidation reduction	1
protein heterooligorr	1
cell cycle	1
biological_process	1
DNA topological che	1
provirus integration	1



initiation of viral infe	1
response to stress	1
response to nutrient	1
mitochondrial outer i	1
cellular chaperone-r	1
endosome transport	1
response to organic	1
regulation of protein	1
negative regulation o	1
myoblast fusion	1
response to toxin	1
response to sterol d	1
response to protein	1
response to peptide	1
response to organic	1
response to insulin s	1
high-density lipoprot	1
response to carbohy	1
response to axon inj	1
response to amino a	1
regulation of release	1
protein amino acid a	1
positive regulation o	1
positive regulation o	1
positive regulation o	1
positive regulation o	1
positive regulation o	1
interleukin-1 beta se	1
oligodendrocyte dev	1
RNA elongation	1
histamine secretion	1
erythrocyte different	1
cytokine secretion	1
cellular response to	1
cellular response to	1
intracellular choleste	1
mRNA transport	1
water homeostasis	1
lipoprotein metabolic	1
response to starvati	1
response to salt stre	1
response to lithium i	1
response to lipopoly	1
lysosome organizati	1
response to glucagc	1
response to calcium	1
phospholipid homeo	1
positive regulation o	1
hyperosmotic respoi	1
female pregnancy	1
platelet dense granu	1
cell volume homeos	1
apoptosis	1
positive regulation o	1
actin filament depoly	1
poly(A)+ mRNA exp	1
spermatogenesis	1
regulation of ARF G	1
multicellular organis	1

cell differentiation	1
prostaglandin biosyr	1
fatty acid biosynthet	1
Total =	133

## GO terms of phosphoproteins increased by dDAVP

<u>Input</u>	<u>Gene Symbol</u>	<u>GO category</u>	<u>GO Term</u>
NP_001019932	Lrrfip2	component	not classified
NP_001019932	Lrrfip2	function	not classified
NP_001019932	Lrrfip2	process	Wnt receptor signaling pathway
NP_001093976	Pctk3	component	not classified
NP_001093976	Pctk3	function	ATP binding
NP_001093976	Pctk3	function	cyclin-dependent protein kinase activity
NP_001093976	Pctk3	function	nucleotide binding
NP_001093976	Pctk3	function	protein binding
NP_001093976	Pctk3	function	transferase activity
NP_001093976	Pctk3	process	protein amino acid phosphorylation
NP_001101892	Plxdc2	component	membrane
NP_001101892	Plxdc2	function	not classified
NP_001101892	Plxdc2	process	not classified
NP_037041	Aqp2	component	apical plasma membrane
NP_037041	Aqp2	component	apical plasma membrane
NP_037041	Aqp2	component	apical plasma membrane
NP_037041	Aqp2	component	basolateral plasma membrane
NP_037041	Aqp2	component	cell fraction
NP_037041	Aqp2	component	clathrin-coated vesicle
NP_037041	Aqp2	component	cytoplasm
NP_037041	Aqp2	component	early endosome
NP_037041	Aqp2	component	exocytic vesicle
NP_037041	Aqp2	component	integral to membrane
NP_037041	Aqp2	component	lysosome
NP_037041	Aqp2	component	membrane fraction
NP_037041	Aqp2	component	membrane fraction
NP_037041	Aqp2	component	plasma membrane
NP_037041	Aqp2	component	plasma membrane
NP_037041	Aqp2	component	protein complex
NP_037041	Aqp2	component	recycling endosome
NP_037041	Aqp2	component	recycling endosome
NP_037041	Aqp2	component	rough endoplasmic reticulum
NP_037041	Aqp2	component	trans-Golgi network
NP_037041	Aqp2	function	actin binding
NP_037041	Aqp2	function	protein binding
NP_037041	Aqp2	function	transporter activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	function	water channel activity
NP_037041	Aqp2	process	actin filament depolymerization
NP_037041	Aqp2	process	aging
NP_037041	Aqp2	process	apoptosis
NP_037041	Aqp2	process	cell volume homeostasis
NP_037041	Aqp2	process	cellular response to water deprivation
NP_037041	Aqp2	process	cellular response to water deprivation
NP_037041	Aqp2	process	female pregnancy
NP_037041	Aqp2	process	hyperosmotic response
NP_037041	Aqp2	process	positive regulation of calcium ion transport
NP_037041	Aqp2	process	renal water transport
NP_037041	Aqp2	process	renal water transport
NP_037041	Aqp2	process	response to calcium ion
NP_037041	Aqp2	process	response to glucagon stimulus
NP_037041	Aqp2	process	response to hormone stimulus
NP_037041	Aqp2	process	response to lipopolysaccharide
NP_037041	Aqp2	process	response to lithium ion
NP_037041	Aqp2	process	response to salt stress
NP_037041	Aqp2	process	response to starvation
NP_037041	Aqp2	process	response to water deprivation
NP_037041	Aqp2	process	transport
NP_037041	Aqp2	process	water homeostasis
NP_037041	Aqp2	process	water transport
NP_037041	Aqp2	process	water transport
NP_037041	Aqp2	process	water transport
NP_062220	Slc14a2	component	integral to membrane
NP_062220	Slc14a2	function	copper ion binding

NP_062220	Slc14a2	function	protein binding
NP_062220	Slc14a2	function	urea transmembrane transporter activity
NP_062220	Slc14a2	function	urea transmembrane transporter activity
NP_062220	Slc14a2	function	urea transmembrane transporter activity
NP_062220	Slc14a2	process	oxidation reduction
NP_062220	Slc14a2	process	response to water deprivation
NP_062220	Slc14a2	process	urea transport
NP_062220	Slc14a2	process	urea transport
NP_445778	Pdlim5	component	Z disc
NP_445778	Pdlim5	component	actin cytoskeleton
NP_445778	Pdlim5	component	cytosol
NP_445778	Pdlim5	component	membrane fraction
NP_445778	Pdlim5	function	actin binding
NP_445778	Pdlim5	function	actinin binding
NP_445778	Pdlim5	function	metal ion binding
NP_445778	Pdlim5	function	protein N-terminus binding
NP_445778	Pdlim5	function	protein binding
NP_445778	Pdlim5	function	protein kinase C binding
NP_445778	Pdlim5	function	receptor signaling complex scaffold activity
NP_445778	Pdlim5	function	zinc ion binding
NP_445778	Pdlim5	process	heart development
NP_445809	Ctnnb1	component	Axin-APC-beta-catenin-GSK3B complex
NP_445809	Ctnnb1	component	Z disc
NP_445809	Ctnnb1	component	Z disc
NP_445809	Ctnnb1	component	adherens junction
NP_445809	Ctnnb1	component	apical junction complex
NP_445809	Ctnnb1	component	apical junction complex
NP_445809	Ctnnb1	component	apical part of cell
NP_445809	Ctnnb1	component	apical part of cell
NP_445809	Ctnnb1	component	basolateral plasma membrane
NP_445809	Ctnnb1	component	basolateral plasma membrane
NP_445809	Ctnnb1	component	beta-catenin destruction complex
NP_445809	Ctnnb1	component	beta-catenin-TCF7L2 complex
NP_445809	Ctnnb1	component	catenin complex
NP_445809	Ctnnb1	component	cell projection membrane
NP_445809	Ctnnb1	component	cell-cell adherens junction
NP_445809	Ctnnb1	component	cell-cell adherens junction
NP_445809	Ctnnb1	component	cell-cell junction
NP_445809	Ctnnb1	component	centrosome
NP_445809	Ctnnb1	component	cytoplasm
NP_445809	Ctnnb1	component	cytoplasm
NP_445809	Ctnnb1	component	cytoplasm
NP_445809	Ctnnb1	component	cytoskeleton
NP_445809	Ctnnb1	component	cytosol
NP_445809	Ctnnb1	component	cytosol
NP_445809	Ctnnb1	component	dendritic shaft
NP_445809	Ctnnb1	component	fascia adherens
NP_445809	Ctnnb1	component	fascia adherens
NP_445809	Ctnnb1	component	lamellipodium
NP_445809	Ctnnb1	component	lamellipodium
NP_445809	Ctnnb1	component	lateral plasma membrane
NP_445809	Ctnnb1	component	lateral plasma membrane
NP_445809	Ctnnb1	component	membrane
NP_445809	Ctnnb1	component	membrane fraction
NP_445809	Ctnnb1	component	membrane fraction
NP_445809	Ctnnb1	component	microvillus membrane
NP_445809	Ctnnb1	component	microvillus membrane
NP_445809	Ctnnb1	component	neuron projection
NP_445809	Ctnnb1	component	nucleus
NP_445809	Ctnnb1	component	nucleus
NP_445809	Ctnnb1	component	nucleus
NP_445809	Ctnnb1	component	plasma membrane
NP_445809	Ctnnb1	component	plasma membrane
NP_445809	Ctnnb1	component	protein complex
NP_445809	Ctnnb1	component	synapse
NP_445809	Ctnnb1	component	transcription factor complex

NP_445809	Cttnb1	component	transcription factor complex
NP_445809	Cttnb1	function	DNA binding
NP_445809	Cttnb1	function	I-SMAD binding
NP_445809	Cttnb1	function	alpha-catenin binding
NP_445809	Cttnb1	function	alpha-catenin binding
NP_445809	Cttnb1	function	cadherin binding
NP_445809	Cttnb1	function	cadherin binding
NP_445809	Cttnb1	function	cadherin binding
NP_445809	Cttnb1	function	cadherin binding
NP_445809	Cttnb1	function	chromatin binding
NP_445809	Cttnb1	function	chromatin binding
NP_445809	Cttnb1	function	double-stranded DNA binding
NP_445809	Cttnb1	function	double-stranded DNA binding
NP_445809	Cttnb1	function	kinase binding
NP_445809	Cttnb1	function	promoter binding
NP_445809	Cttnb1	function	protein C-terminus binding
NP_445809	Cttnb1	function	protein binding
NP_445809	Cttnb1	function	protein binding
NP_445809	Cttnb1	function	protein binding
NP_445809	Cttnb1	function	protein phosphatase binding
NP_445809	Cttnb1	function	protein phosphatase binding
NP_445809	Cttnb1	function	transcription activator activity
NP_445809	Cttnb1	function	transcription coactivator activity
NP_445809	Cttnb1	function	transcription coactivator activity
NP_445809	Cttnb1	function	transcription factor activity
NP_445809	Cttnb1	function	transcription factor activity
NP_445809	Cttnb1	function	transcription factor binding
NP_445809	Cttnb1	function	transcription factor binding
NP_445809	Cttnb1	process	Schwann cell proliferation
NP_445809	Cttnb1	process	T cell differentiation in the thymus
NP_445809	Cttnb1	process	T cell differentiation in the thymus
NP_445809	Cttnb1	process	Wnt receptor signaling pathway
NP_445809	Cttnb1	process	Wnt receptor signaling pathway through beta-catenin
NP_445809	Cttnb1	process	Wnt receptor signaling pathway through beta-catenin
NP_445809	Cttnb1	process	anterior/posterior axis specification
NP_445809	Cttnb1	process	anterior/posterior axis specification
NP_445809	Cttnb1	process	apoptosis
NP_445809	Cttnb1	process	apoptosis
NP_445809	Cttnb1	process	bone resorption
NP_445809	Cttnb1	process	bone resorption
NP_445809	Cttnb1	process	camera-type eye morphogenesis
NP_445809	Cttnb1	process	camera-type eye morphogenesis
NP_445809	Cttnb1	process	cell differentiation
NP_445809	Cttnb1	process	cell fate determination
NP_445809	Cttnb1	process	cell fate specification
NP_445809	Cttnb1	process	cell fate specification
NP_445809	Cttnb1	process	cell maturation
NP_445809	Cttnb1	process	cell maturation
NP_445809	Cttnb1	process	cell morphogenesis involved in differentiation
NP_445809	Cttnb1	process	cell morphogenesis involved in differentiation
NP_445809	Cttnb1	process	cell proliferation
NP_445809	Cttnb1	process	cell-cell adhesion
NP_445809	Cttnb1	process	cell-cell adhesion
NP_445809	Cttnb1	process	cell-cell adhesion
NP_445809	Cttnb1	process	cell-matrix adhesion
NP_445809	Cttnb1	process	cell-matrix adhesion
NP_445809	Cttnb1	process	cellular process
NP_445809	Cttnb1	process	cellular protein localization
NP_445809	Cttnb1	process	cellular protein localization
NP_445809	Cttnb1	process	dorsal/ventral axis specification
NP_445809	Cttnb1	process	dorsal/ventral axis specification
NP_445809	Cttnb1	process	dorsal/ventral pattern formation
NP_445809	Cttnb1	process	ectoderm development
NP_445809	Cttnb1	process	ectoderm development
NP_445809	Cttnb1	process	embryonic arm morphogenesis
NP_445809	Cttnb1	process	embryonic arm morphogenesis

NP_445809	Ctnnb1	process	embryonic digit morphogenesis
NP_445809	Ctnnb1	process	embryonic digit morphogenesis
NP_445809	Ctnnb1	process	embryonic hindlimb morphogenesis
NP_445809	Ctnnb1	process	embryonic hindlimb morphogenesis
NP_445809	Ctnnb1	process	endoderm formation
NP_445809	Ctnnb1	process	endodermal cell fate commitment
NP_445809	Ctnnb1	process	endodermal cell fate commitment
NP_445809	Ctnnb1	process	epithelial cell differentiation involved in prostate gland development
NP_445809	Ctnnb1	process	forebrain development
NP_445809	Ctnnb1	process	forebrain development
NP_445809	Ctnnb1	process	gastrulation with mouth forming second
NP_445809	Ctnnb1	process	gastrulation with mouth forming second
NP_445809	Ctnnb1	process	glial cell fate determination
NP_445809	Ctnnb1	process	glial cell fate determination
NP_445809	Ctnnb1	process	heart development
NP_445809	Ctnnb1	process	heart development
NP_445809	Ctnnb1	process	hemopoiesis
NP_445809	Ctnnb1	process	hemopoiesis
NP_445809	Ctnnb1	process	liver development
NP_445809	Ctnnb1	process	lung development
NP_445809	Ctnnb1	process	lung development
NP_445809	Ctnnb1	process	midgut development
NP_445809	Ctnnb1	process	morphogenesis of embryonic epithelium
NP_445809	Ctnnb1	process	morphogenesis of embryonic epithelium
NP_445809	Ctnnb1	process	myoblast differentiation
NP_445809	Ctnnb1	process	negative regulation of cell differentiation
NP_445809	Ctnnb1	process	negative regulation of chondrocyte differentiation
NP_445809	Ctnnb1	process	negative regulation of chondrocyte differentiation
NP_445809	Ctnnb1	process	negative regulation of osteoclast differentiation
NP_445809	Ctnnb1	process	negative regulation of osteoclast differentiation
NP_445809	Ctnnb1	process	negative regulation of transcription from RNA polymerase II promoter
NP_445809	Ctnnb1	process	negative regulation of transcription from RNA polymerase II promoter
NP_445809	Ctnnb1	process	negative regulation of transcription, DNA-dependent
NP_445809	Ctnnb1	process	odontogenesis of dentine-containing tooth
NP_445809	Ctnnb1	process	odontogenesis of dentine-containing tooth
NP_445809	Ctnnb1	process	odontogenesis of dentine-containing tooth
NP_445809	Ctnnb1	process	osteoclast differentiation
NP_445809	Ctnnb1	process	pancreas development
NP_445809	Ctnnb1	process	pancreas development
NP_445809	Ctnnb1	process	patterning of blood vessels
NP_445809	Ctnnb1	process	patterning of blood vessels
NP_445809	Ctnnb1	process	positive regulation of MAPKKK cascade
NP_445809	Ctnnb1	process	positive regulation of MAPKKK cascade
NP_445809	Ctnnb1	process	positive regulation of epithelial cell differentiation
NP_445809	Ctnnb1	process	positive regulation of epithelial cell differentiation
NP_445809	Ctnnb1	process	positive regulation of epithelial cell proliferation involved in prostate gland development
NP_445809	Ctnnb1	process	positive regulation of gene-specific transcription from RNA polymerase II promoter
NP_445809	Ctnnb1	process	positive regulation of heparan sulfate proteoglycan biosynthetic process
NP_445809	Ctnnb1	process	positive regulation of osteoblast differentiation
NP_445809	Ctnnb1	process	positive regulation of osteoblast differentiation
NP_445809	Ctnnb1	process	positive regulation of transcription
NP_445809	Ctnnb1	process	positive regulation of transcription from RNA polymerase II promoter
NP_445809	Ctnnb1	process	positive regulation of transcription from RNA polymerase II promoter
NP_445809	Ctnnb1	process	positive regulation of transcription, DNA-dependent
NP_445809	Ctnnb1	process	protein heterooligomerization
NP_445809	Ctnnb1	process	proximal/distal pattern formation
NP_445809	Ctnnb1	process	proximal/distal pattern formation
NP_445809	Ctnnb1	process	regulation of cell differentiation
NP_445809	Ctnnb1	process	regulation of cell proliferation
NP_445809	Ctnnb1	process	regulation of cell proliferation
NP_445809	Ctnnb1	process	regulation of centriole-centriole cohesion
NP_445809	Ctnnb1	process	regulation of epithelial cell differentiation
NP_445809	Ctnnb1	process	regulation of osteoblast differentiation
NP_445809	Ctnnb1	process	regulation of osteoclast differentiation
NP_445809	Ctnnb1	process	regulation of transcription
NP_445809	Ctnnb1	process	regulation of transcription, DNA-dependent

NP_445809	Ctnnb1	process	response to cadmium ion
NP_445809	Ctnnb1	process	response to cytokine stimulus
NP_445809	Ctnnb1	process	response to estrogen stimulus
NP_445809	Ctnnb1	process	response to hormone stimulus
NP_445809	Ctnnb1	process	response to organic cyclic substance
NP_445809	Ctnnb1	process	skeletal system development
NP_445809	Ctnnb1	process	skeletal system development
NP_445809	Ctnnb1	process	synapse organization
NP_445809	Ctnnb1	process	synapse organization
NP_445809	Ctnnb1	process	synaptic transmission
NP_445809	Ctnnb1	process	synaptic transmission
NP_445809	Ctnnb1	process	synaptic vesicle transport
NP_445809	Ctnnb1	process	synaptic vesicle transport
NP_445809	Ctnnb1	process	thymus development
NP_445809	Ctnnb1	process	thymus development
NP_690003	Carhsp1	component	cytoplasm
NP_690003	Carhsp1	component	cytosol
NP_690003	Carhsp1	function	DNA binding
NP_690003	Carhsp1	function	protein binding
NP_690003	Carhsp1	function	protein binding
NP_690003	Carhsp1	function	protein binding
NP_690003	Carhsp1	process	calcium-mediated signaling
NP_690003	Carhsp1	process	regulation of transcription, DNA-dependent
NP_998791	kif13B	component	microtubule
NP_998791	kif13B	function	ATP binding
NP_998791	kif13B	function	microtubule motor activity
NP_998791	kif13B	function	nucleotide binding
NP_998791	kif13B	process	microtubule-based movement
XP_001078032	Ahnak	component	not classified
XP_001078032	Ahnak	function	protein binding
XP_001078032	Ahnak	process	not classified
XP_215763	Tnks1bp1	component	not classified
XP_215763	Tnks1bp1	function	not classified
XP_215763	Tnks1bp1	process	not classified
XP_225259	Dsp	component	adherens junction
XP_225259	Dsp	component	basolateral plasma membrane
XP_225259	Dsp	component	basolateral plasma membrane
XP_225259	Dsp	component	cornified envelope
XP_225259	Dsp	component	desmosome
XP_225259	Dsp	component	desmosome
XP_225259	Dsp	component	desmosome
XP_225259	Dsp	component	fascia adherens
XP_225259	Dsp	component	mitochondrion
XP_225259	Dsp	component	mitochondrion
XP_225259	Dsp	component	plasma membrane
XP_225259	Dsp	function	protein binding, bridging
XP_225259	Dsp	process	keratinocyte differentiation
XP_225259	Dsp	process	peptide cross-linking
XP_225259	Dsp	process	wound healing

Statistic: component

basolateral plasma	5
cytoplasm	5
membrane fraction	5
plasma membrane	5
not classified	4
cytosol	4
apical plasma mem	3
nucleus	3
desmosome	3
Z disc	3
fascia adherens	3
transcription factor	2
lamellipodium	2
membrane	2
mitochondrion	2

microvillus membra	2
integral to membra	2
cell-cell adherens j	2
protein complex	2
recycling endosom	2
lateral plasma merr	2
adherens junction	2
apical part of cell	2
apical junction com	2
dendritic shaft	1
Axin-APC-beta-cate	1
synapse	1
actin cytoskeleton	1
beta-catenin destru	1
trans-Golgi network	1
rough endoplasmic	1
beta-catenin-TCF7I	1
catenin complex	1
microtubule	1
cornified envelope	1
lysosome	1
cell projection mem	1
exocytic vesicle	1
early endosome	1
cell-cell junction	1
clathrin-coated vesi	1
cell fraction	1
centrosome	1
neuron projection	1
cytoskeleton	1
Total =	90

Statistic: function	
protein binding	11
cadherin binding	4
not classified	3
water channel activ	3
urea transmembrar	3
transcription factor	2
ATP binding	2
protein phosphatas	2
nucleotide binding	2
actin binding	2
transcription factor	2
double-stranded DN	2
chromatin binding	2
transcription coacti	2
alpha-catenin bindi	2
DNA binding	2
transcription activat	1
zinc ion binding	1
receptor signaling c	1
protein kinase C bir	1
protein N-terminus	1
metal ion binding	1
actinin binding	1
I-SMAD binding	1
copper ion binding	1
microtubule motor	1
transporter activity	1
kinase binding	1
transferase activity	1
protein binding, brie	1
promoter binding	1
cyclin-dependent p	1
protein C-terminus	1



Total = 63

Statistic: process	
not classified	3
apoptosis	3
water transport	3
heart development	3
cell-cell adhesion	3
odontogenesis of d	3
Wnt receptor signal	2
synaptic vesicle tra	2
synaptic transmissi	2
synapse organizati	2
skeletal system dev	2
cellular response to	2
renal water transpo	2
response to hormo	2
response to water c	2
regulation of transc	2
urea transport	2
T cell differentiation	2
Wnt receptor signal	2
anterior/posterior a:	2
bone resorption	2
regulation of cell pr	2
camera-type eye m	2
proximal/distal patte	2
cell fate specificatio	2
cell maturation	2
positive regulation o	2
cell morphogenesis	2
positive regulation o	2
cell-matrix adhesio	2
cellular protein loca	2
dorsal/ventral axis	2
positive regulation o	2
positive regulation o	2
patterning of blood	2
pancreas developm	2
ectoderm developm	2
thymus developm	2
embryonic arm mor	2
negative regulation	2
negative regulation	2
negative regulation	2
embryonic digit mor	2
embryonic hindlimb	2
morphogenesis of e	2
endodermal cell fat	2
lung development	2
forebrain developm	2
hemopoiesis	2
glial cell fate deter	2
gastrulation with m	2
response to organic	1
epithelial cell differe	1
liver development	1
endoderm formatio	1
midgut developm	1
myoblast differentia	1
negative regulation	1
negative regulation	1
dorsal/ventral patte	1
osteoclast differenti	1
positive regulation o	1
cellular process	1

positive regulation of	1
calcium-mediated s	1
cell proliferation	1
positive regulation of	1
positive regulation of	1
positive regulation of	1
cell fate determinat	1
cell differentiation	1
protein heterooligor	1
regulation of cell dif	1
regulation of centric	1
regulation of epithe	1
regulation of osteot	1
Schwann cell prolif	1
microtubule-based	1
regulation of osteoc	1
oxidation reduction	1
keratinocyte differe	1
water homeostasis	1
transport	1
regulation of transc	1
response to starvat	1
response to salt str	1
response to lithium	1
response to lipopol	1
response to cadmi	1
response to glucag	1
response to calciun	1
response to cytokin	1
positive regulation of	1
hyperosmotic resp	1
female pregnancy	1
response to estrog	1
cell volume homeos	1
peptide cross-linkin	1
aging	1
actin filament depol	1
wound healing	1
protein amino acid	1
Total =	159

# Conserved domain analysis of phosphoproteins decreased by dDAVP

Input	Protein Name	CDD	Conserved Domain
NP_001019962	epsin 3	cd03571	ENTH_epsin
NP_001019962	epsin 3	PRK07764	PRK07764
NP_001101454	PDLIM1 interacti	cd00180	S_TKc
NP_001101454	PDLIM1 interacti	smart00220	S_TKc
NP_001101454	PDLIM1 interacti	cd00180	S_TKc
NP_001101454	PDLIM1 interacti	smart00220	S_TKc
NP_001101454	PDLIM1 interacti	cd00180	S_TKc
NP_001101454	PDLIM1 interacti	smart00220	S_TKc
NP_001101454	PDLIM1 interacti	cd00180	S_TKc
NP_001101454	PDLIM1 interacti	smart00220	S_TKc
NP_001101454	PDLIM1 interacti	cd00180	S_TKc
NP_001124461	prostaglandin-E	cd00237	p23
NP_001129068	ArfGAP with FG	cl02464	ArfGap
NP_037041	aquaporin 2 (coll	cd00333	MIP
NP_110484	Yamaguchi sarxc	cd00173	SH2
NP_110484	Yamaguchi sarxc	cd00174	SH3
NP_110484	Yamaguchi sarxc	pfam07714	Pkinase_Tyr
NP_110484	Yamaguchi sarxc	cd05034	PTKc_Src_like
NP_445747	calpastatin isofor	pfam00748	Calpain_inhib
NP_446225	tight junction pro	cd00992	PDZ_signaling
NP_446225	tight junction pro	smart00072	GuKc
NP_446225	tight junction pro	cl09099	P-loop NTPase
NP_446225	tight junction pro	cl09950	SH3
NP_742005	calnexin precursr	pfam00262	Calreticulin
NP_786937	heat shock prote	pfam00183	HSP90
NP_786937	heat shock prote	cl00075	HATPase_c
NP_786941	PC4 and SFRS1	cd05834	HDGF_related
NP_789826	septin 9 isoform	cd01850	CDC_Septin
NP_808877	solute carrier fan	cl01829	UT
NP_835196	ATP-binding cas	cd03263	ABC_subfamily_A
NP_835196	ATP-binding cas	TIGR01257	rim_protein
XP_001053711		pfam09162	Tap-RNA_bind
XP_001053711		cl04338	TAP_C
XP_001053711		cl09109	NTF2_like
XP_001059640		cd00183	TFIIS_I
XP_001059640		TIGR01385	TFSII
XP_001059640		cl02609	TFIIS_C
XP_001059640		cl02637	TFIIS_M
XP_001059640		cd00183	TFIIS_I
XP_001059640		TIGR01385	TFSII
XP_001059640		cl02609	TFIIS_C
XP_001059640		cl02637	TFIIS_M
XP_001071043		cd00992	PDZ_signaling
XP_001071043		cd01258	PH_syntrophin
XP_001071043		cd00992	PDZ_signaling
XP_001071043		cd01258	PH_syntrophin
XP_237286		cd00173	SH2
XP_237286		pfam10409	PTEN_C2
XP_237286		cl00053	PTPc
XP_237286		cl00273	PH-like
XP_237286		cd00173	SH2
XP_237286		pfam10409	PTEN_C2
XP_237286		cl00053	PTPc
XP_237286		cl00273	PH-like
XP_341257		pfam10409	PTEN_C2
XP_341257		cl00053	PTPc
XP_341257		cd00173	SH2
XP_341257		cl00273	PH-like
XP_341257		cd00029	C1
XP_341257		cd00173	SH2
XP_341257		cd01213	tensin
XP_341257		pfam10409	PTEN_C2
XP_341257		cl00053	PTPc

Statistic: conserved domain

S_TKc	8
SH2	5
PTEN_C2	4
PTPc	4
PDZ_signaling	3
PH-like	3
SH3	2
TFIIS_M	2
TFIIS_C	2
TFSII	2
TFIIS_I	2
PH_syntrophin	2
ENTH_epsin	1
Tap-RNA_bind	1
rim_protein	1
ABC_subfamily_A	1
UT	1
CDC_Septin	1
HDGF_related	1
HATPase_c	1
HSP90	1
Calreticulin	1
P-loop NTPase	1
GuKc	1
TAP_C	1
Calpain_inhib	1

PTKc_Src_like	1
Pkinase_Tyr	1
NTF2_like	1
C1	1
MIP	1
ArfGap	1
p23	1
tensin	1
PRK07764	1
Total =	62

## Conserved domain analysis of phosphoproteins increased by dDAVP

Input	Protein Name	CDD	Conserved Domain
NP_001019932	leucine rich repea	pfam09738	DUF2051
NP_001093976	PCTAIRE protein	cd00180	S_TKc
NP_001093976	PCTAIRE protein	smart00220	S_TKc
NP_001093976	PCTAIRE protein	cd00180	S_TKc
NP_001093976	PCTAIRE protein	smart00220	S_TKc
NP_001093976	PCTAIRE protein	cd00180	S_TKc
NP_001093976	PCTAIRE protein	smart00220	S_TKc
NP_001101892	plexin domain cor	cl02601	PSI
NP_001101892	plexin domain cor	cl02648	NIDO
NP_001101892	plexin domain cor	cl02601	PSI
NP_001101892	plexin domain cor	cl02648	NIDO
NP_001101892	plexin domain cor	cl02601	PSI
NP_001101892	plexin domain cor	cl02648	NIDO
NP_037041	aquaporin 2 (colle	cd00333	MIP
NP_062220	solute carrier fam	cl01829	UT
NP_062220	solute carrier fam	cl01829	UT
NP_445778	PDZ and LIM don	cd00992	PDZ_signaling
NP_445778	PDZ and LIM don	cl02475	LIM
NP_445809	beta-catenin	cd00020	ARM
NP_445809	beta-catenin	cl02500	ARM
NP_690003	calcium regulated	cd04458	CSP_CDS
NP_998791	kinesin 13B	cd00060	FHA
NP_998791	kinesin 13B	cd01365	KISc_KIF1A_KIF1B
NP_998791	kinesin 13B	pfam01302	CAP_GLY
XP_215763		null	null
XP_225259		COG1196	Smc
XP_225259		cl02531	Plectin
XP_225259		cd00176	SPEC
XP_225259		TIGR02168	SMC_prok_B
XP_225259		cl02531	Plectin
XP_225259		COG1196	Smc
XP_225259		cl02531	Plectin
XP_225259		cd00176	SPEC
XP_225259		TIGR02168	SMC_prok_B
XP_225259		cl02531	Plectin

Statistic: conserved domain

S_TKc	6
Plectin	4
PSI	3
NIDO	3
SMC_prok_B	2
SPEC	2
Smc	2
UT	2
ARM	2
DUF2051	1
CSP_CDS	1
LIM	1
PDZ_signaling	1
FHA	1
MIP	1
KISc_KIF1A_KIF	1
CAP_GLY	1
null	1
Total =	35