

Additional file 7

GABA receptor signaling pathway according to IPA®

Symbols are explained in a table (Part B). Filled symbols represent proteins found to be altered in synaptosomes according to our MS data, green indicates reduced levels and red notifies increased levels compared to controls. The networks and functional analyses were generated through the use of QIAGEN's Ingenuity Pathway Analysis (IPA®, QIAGEN Redwood City, www.qiagen.com/ingenuity)

	T	T
* * ` '		Family
,	- ' '	enzyme
		group
aldehyde dehydrogenase 5 family member A1	Cytoplasm	enzyme
aldehyde dehydrogenase 9 family member A1	Cytoplasm	enzyme
AP-2, Clathrin adaptor AP2	Cytoplasm	complex
Apo-Baclofen, Baclon	Other	chemical drug
	Other	chemical - other
	Other	chemical drug
Voltage-Gated Ca2+ Channel	Plasma Membrane	complex
	Other	function
chloride ion (CI-)	Other	chemical - endogenous mammalian
dynamin 1	Cytoplasm	enzyme
G-protein α-β-γ	Cytoplasm	complex
γ-aminobutyric acid	Other	chemical - endogenous mammalian
GABA type A receptor	Plasma Membrane	complex
GABA type B receptor	Plasma Membrane	group
GABA type A receptor-associated protein	Cytoplasm	transporter
γ-glutamate decarboxylase, Gad65/67	Other	group
γ-Hydroxybutyric acid	Other	chemical drug
GABA transporter	Other	group
gephyrin	Plasma Membrane	enzyme
potassium channel	Plasma Membrane	group
L-glutamic acid	Other	chemical - endogenous mammalian
N-ethylmaleimide sensitive factor / vesicle fusing ATPase,	Cytoplasm	transporter
	Other	function
solute carrier family 32 (GABA vesicular transporter) member 1	Plasma Membrane	transporter
succinate	Other	chemical - endogenous mammalian
γ-oxybutyric acid	Other	chemical - endogenous mammalian
Polyubiquitin, Ub	Cytoplasm	group
ubiquilin 1	Cytoplasm	other
	AP-2, Clathrin adaptor AP2 Apo-Baclofen, Baclon Voltage-Gated Ca2+ Channel chloride ion (Cl-) dynamin 1 G-protein α-β-γ y-aminobutyric acid GABA type A receptor GABA type B receptor GABA type A receptor-associated protein y-glutamate decarboxylase, Gad65/67 y-Hydroxybutyric acid GABA transporter gephyrin potassium channel L-glutamic acid N-ethylmaleimide sensitive factor / vesicle fusing ATPase, solute carrier family 32 (GABA vesicular transporter) member 1 succinate y-oxybutyric acid Polyubiquitin, Ub	4-aminobutyrate aminotransferase Cytoplasm 3',5'-cyclic AMP synthetase Cytoplasm aldehyde dehydrogenase 5 family member A1 Cytoplasm aldehyde dehydrogenase 9 family member A1 Cytoplasm AP-2, Clathrin adaptor AP2 Cytoplasm Apo-Baclofen, Baclon Other Voltage-Gated Ca2+ Channel Plasma Membrane Chloride ion (Cl-) Other dynamin 1 Cytoplasm G-protein α-β-γ Cytoplasm γ-aminobutyric acid Other GABA type A receptor Plasma Membrane GABA type A receptor-associated protein Cytoplasm γ-glutamate decarboxylase, Gad65/67 Other γ-Hydroxybutyric acid Other GABA transporter Other gephyrin Plasma Membrane potassium channel Plasma Membrane L-glutamic acid Other N-ethylmaleimide sensitive factor / vesicle fusing ATPase, Cytoplasm Other Other solute carrier family 32 (GABA vesicular transporter) member 1 Plasma Membrane succinate Other Y-oxybutyric acid Other