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**Función de Netrina1 y Semaforinas
secretables en la guía neuronal y axonal en el
hipocampo y el cerebelo**

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ABREVIATURAS

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- AA** Aminoácido
Ach Acetylcholine
Adf Actin depolymerizing protein
aep anterior entopeduncular area
Akap A-kinase anchoring protein
Akt(=PKB) akr/Thymoma viral proto-oncogene: gen originalmente identificado en un timoma espontáneo de la cepa de ratón akr
Apaf1 apoptotic protease activating factor 1
Arp2/3 Actin-related proteins 2/3
- Bcl** B-cell leukemia/lymphoma
BDNF brain-derived neurotrophic factor
Blbp brain lipid binding protein
bHLH basic helix-loop-helix
Bmp bone morphogenetic proteins
- C.elegans** Caenorhabditis elegans
CA Cornu Ammonis (Cuerno de Amón)
CAM cellular adhesion molecule
CaMKII Calmoduline kinase II
cAMP cyclic adenosine monophosphate
CaN Calcineurin
Cas Crk-associated substrate
Casl Cas ligand
caspase Cysteine-aspartic protease
CCK Cholecystokinin
Cdc42 cell division cycle 42
Cdk cyclin-dependent kinase
Cdr cystine-rich domain
cGMP cyclic guanosine monophosphate
CICR Ca²⁺-induced Ca²⁺ release
Comm Commissureless
CR Cajal-Retzius cells
Crib Cdc42/Rac1 interactive binding
Crmp Collapsin response mediator protein
CS Chondroitin sulphate
CSPG Chondroitin sulphate proteoglycan
CTGF connective tissue growth factor
CUB dominio originalmente identificado en los genes *Clr/Cls*, *Uegf*, *Bmpl*
cvd cerebellar vermis defect
- Dab** Disabled
DAG Diacylglycerol
Dapk death-asociated protein kinase
DB Dcc binding
Dcc deleted in colorectal cancer
DD death domain

DIV	días <u>in vitro</u>
Dip13	<u>Dcc</u> -interacting protein 13
Dlx	Gen de ratón/rata que contiene un dominio homeobox similar al del gen <i>Distal-less</i> (<i>Dll</i>) de <i>Drosophila</i>
Dock	<u>dreadlocks</u>
DPA	días <u>post-axotomía</u>
DRG	<u>dorsal root ganglion</u>
ecn	<u>external cuneate nuclei</u>
EGF	<u>epidermal growth factor</u>
EGFR	<u>epidermal growth factor receptor</u>
EGL	<u>external granular layer</u>
En	<u>Engrailed</u>
Eph	<u>Erythropoietin-producing hepatocellular</u>
Ephrin	<u>Eph receptor interacting protein</u>
ErbB4	avian <u>erythroblastic leukemia viral oncogene 4</u>
Erk	<u>extracellular-regulated kinase</u>
FAK	<u>focal adhesion kinase</u>
FES/FPS	<u>feline sarcoma virus/Fujinami-PRCII avian sarcoma virus</u>
FGF2	basic <u>fibroblast growth factor 2</u>
GAD	<u>glutamic acid decarboxilase</u>
GAG	<u>glycosaminoglycan</u>
GAP	<u>GTPase-activating protein</u>
Gbx	gastrulation <u>brain homeobox</u>
GDI	<u>guanine dissociation inhibitor</u>
GEF	<u>guanine exchange factors</u>
GFAP	<u>glial fibrillary acidic protein</u>
GGF	<u>glial growth factor</u>
girk2	<u>G-protein ion-rectifying K⁺-channel 2</u>
Glast	<u>glutamate-aspartate transporter</u>
GPI	<u>glycosyl-phosphatidyl-inositol</u>
GRID	<u>glutamate receptor ionotropic delta subunit</u>
GSK3	<u>glycogen synthase kinase 3</u>
HETE	<u>hydroxyeicosatetraenoic acid</u>
HGF/SF	<u>hepatocyte growth factor/scatter factor</u>
HIPP	<u>hilar perforant path-associated cell</u>
Hox	<u>homeo box</u> : gen de ratón/rata con un dominio homeobox
IFNγ	<u>interferon gamma</u>
Ig	<u>immunoglobulina</u>
IGF1	<u>Insulin-like growth factor 1</u>
IGL	<u>inner granular layer</u>
IP3	<u>inositol 1,4,5-triphosphate</u>
IPT	<u>Ig-like, plexins and transcription factor</u>
IS	<u>interneuron-selective</u> : interneuronas del hipocampo especializadas en inervar otras interneuronas
IsO	<u>isthmus organizer</u>

- Jip** Jnk (c-Jun amino-terminal kinase) interacting protein
KSPG Keratan sulphate proteoglycan
- Larg** leukemia-associated Rho GEF
LEA lateral entorhinal area
LGE lateral ganglionar eminence
Lim Dominio rico en cisteínas originalmente descrito en los genes Lin11 Isl1 Mec3
Lingo LRR and Ig domain-containing Nogo receptor interacting protein
Lis1 Miller-Dieker lissencephaly 1
lrn lateral reticular nuclei
LTP long term potential
- MAG** myelin-associated protein
MAM Meprin/A5-protein/Ptp μ (mu): dominio originalmente descrito en las proteínas Meprina, proteína A5 y proteína tirosina-fosfatasa μ)
Map1B microtubule-associated protein b
MAPK mitogen-activated protein kinases
Math mouse atonal homolog: gen en ratón homólogo al gen *atonal* de *Drosophila*
Max motor axon guidance
mea meander tail
MEA medial entorhinal area
MGE medial ganglionar eminence
MHB midbrain-hindrain boundary
Mical molecule interacting with cas ligand
Mlck myosin light chain kinase
MRS Met-related sequence
MTG mieloid translocation gene
Mupp1 multi-PDZ-protein 1
- NGF** nerve growth factor
Ng11 Netrin g1 ligand
NgR Nogo receptor
NiG extremo N-terminal de Nogo, reconocido por el anticuerpo IN1
Nip Np1 interacting protein
Nkx gen de ratón/rata que contiene un dominio homeobox similar al del gen Nk de *Drosophila*
NMDA N-methyl-D-aspartic acid
NO nitric oxide
Np Neuropilin
NPxY Secuencia aminoacídica formada por asparragina-prolina-cualquier aminoácido-tirosina
NPY Neuropeptide Y
Nrage neurotrophin receptor-interacting MAGE homolog
NT3 neurotrophin 3
NTZ nuclear transitory zone
- O-LM** oriens-lacunosum-moleculare
OMgp oligodendrocyte myelin glycoprotein
Otk off-track protein

Otx	gen de ratón/rata homólogo al gen <i>Orthodenticle (Otd)</i> de <i>Drosophila</i> , con un dominio homeobox
p27/Kip1	cyclic dependent <u>k</u> inase <u>i</u> nhibitor <u>p</u> rotein 1
PAFAH1b	<u>p</u> latelet <u>a</u> ctivating <u>f</u> actor <u>a</u> cetyl <u>h</u> ydrolase 1b
PAK	<u>P</u> 21 <u>a</u> ctivated <u>k</u> inase
Pax	<u>p</u> aired <u>b</u> ox, gen de ratón/rata con un dominio de unión a DNA homólogo al del gen <i>Paired</i> de <i>Drosophila</i>
pcd	<u>P</u> urkinje <u>c</u> ell <u>d</u> egeneration
PDZ	<u>P</u> sd-95/ <u>D</u> lg/ <u>Z</u> o-1
PH	<u>P</u> leckstrin <u>h</u> omology
PI3K	<u>p</u> hospho <u>i</u> nositide 3 <u>k</u> inase
Pick1	<u>p</u> rotein <u>i</u> nteracting with <u>C</u> <u>k</u> inase 1
PIP2	<u>p</u> hosphatidyl <u>i</u> nositol bisphosphate
PKA	<u>p</u> rotein <u>k</u> inase <u>A</u>
PKB	<u>p</u> rotein <u>k</u> inase <u>B</u> (=akt)
PKC	<u>p</u> rotein <u>k</u> inase <u>C</u>
PKG	<u>p</u> rotein <u>k</u> inase <u>G</u>
PLC	<u>p</u> hospho <u>l</u> ipase <u>C</u>
Plex	<u>P</u> lexina
PSD95	<u>p</u> ost- <u>s</u> ynaptic <u>d</u> ensities 95 kDa
PSI	<u>p</u> lexin- <u>s</u> emaphorin- <u>i</u> ntegrin domain
PTB	<u>p</u> hospho <u>t</u> yrosine <u>b</u> inding domain
Ptf1	<u>p</u> ancreatic <u>t</u> ranscription <u>f</u> actor 1
Rac1	<u>R</u> as- related <u>C</u> 3 botulinum toxin substrate 1
Rap	<u>R</u> as peptide
Ras	retrovirus- <u>a</u> ssociated <u>s</u> equence
rcm	rostral <u>c</u> erebellar <u>m</u> alformation
RGD	secuencia aminoacídica formada por arginina (R), glicina (G), aspartato (D)
RHO	<u>R</u> as <u>h</u> omolog gene family
Rnd	<u>r</u> ound (porque, expresada en fibroblastos, produce el redondeo de las células al perder éstas la adherencia al sustrato)
Robo	<u>r</u> ound <u>a</u> bout
Rock	<u>R</u> ho <u>k</u> inase
Ror	retinoid-related <u>o</u> rphan <u>r</u> eceptor
SAM	sterile <u>a</u> lpha <u>m</u> otif
SCAR	<u>s</u> uppressor of <u>c</u> ar
SDF1	<u>s</u> tromal cell- <u>d</u> erived <u>f</u> actor
Shh	<u>s</u> onic <u>h</u> edge <u>h</u> oc
SIGLEC	<u>s</u> ialic-dependent <u>i</u> mmunoglobulin-like <u>l</u> ectin
SNC	<u>s</u> istema <u>n</u> ervioso <u>c</u> entral
SNP	<u>s</u> istema <u>n</u> ervioso <u>p</u> eriférico
SP	<u>s</u> ex and <u>p</u> lexins
SRC	<u>s</u> teroid <u>r</u> eceptor <u>c</u> oactivator
Src	<u>s</u> ar <u>c</u> oma: gen proveniente del virus del Sarcoma de Rous
Tag1	<u>t</u> ubulin- <u>a</u> ssociated <u>g</u> lycoprotein 1
TGFβ	<u>t</u> ransforming <u>g</u> rowth <u>f</u> actor beta

TH	tyrosine <u>h</u> ydroxilase
TIM	<u>T</u> -cell <u>i</u> mmunoglobulin domain and <u>M</u> ucin domain
TNFR	tumour <u>n</u> ecrosis <u>f</u> actor <u>r</u> eceptor
Troy	<u>T</u> NF receptor superfamily expressed <u>o</u> n the mouse embryo
TRPC	transient <u>r</u> eceptor potential <u>c</u> hannel
UNC	<u>u</u> ncoordinated
Unc5H	<u>U</u> nc5 <u>h</u> omologues
Vasp/Ena	vasodilator-stimulated phosphoprotein (Vasp)/ <u>E</u> nabled (Ena),
VEGF	vascular <u>e</u> ndotelial <u>g</u> rowth <u>f</u> actor
VEGFR	vascular <u>e</u> ndotelial <u>g</u> rowth <u>f</u> actor <u>r</u> eceptor
VIP	vaso <u>i</u> ntestinal polypeptide
Wasp	<u>W</u> iskott- <u>A</u> ldrich <u>s</u> ndrome protein
Wnt	<u>w</u> ingless
Yes	<u>Y</u> amaguchi 73 and <u>E</u> sh avian <u>s</u> arcoma: genes provenientes de los virus del sarcoma aviar Yamaguchi 73 y Esh
Zic	<u>z</u> inc finger proteins of the <u>c</u> erebellum
Zipro	<u>z</u> inc finger <u>p</u> roliferation
Zo1	<u>z</u> ona <u>o</u> ccludens 1