

METACORE QUICK REFERENCE GUIDE

USER DATA

NETWORKS	MAPS
Up-regulated (+) Object has user data with positive value	
Down-regulated (-) Object has user data with negative value	
Mixed-signal (+/-) Object has user data with both positive and negative values	
Gene variants Object has user data with gene variants	
Mixed data Object has user data with both expression values and gene variants	

NETWORK OBJECTS

ENZYMES	GENERIC CLASSES
Generic enzyme	Receptor ligand
KINASE	Transcription factor
Generic kinase	Protein
Protein kinase	Compound
Lipid kinase	Predicted metabolite or user's structure
PHOSPHATASE	Inorganic ion
Generic phosphatase	Reaction
Protein phosphatase	DNA
Lipid phosphatase	RNA
PHOSPHOLIPASE	Generic binding protein
Generic phospholipase	
PROTEASE	
Generic protease	
Metalloprotease	
GTPASE	
G-alpha	
RAS - superfamily	
CHANNELS/TRANSPORTERS	G PROTEIN ADAPTOR/REGULATORS
Generic channel	G beta/gamma
Ligand-gated ion channel	Regulators (GDI, GAP, GEF, etc.)
Voltage-gated ion channel	
Transporter	
RECEPTORS	
Generic	
GPCR	
Receptors with kinase activity	
GROUPS OF OBJECTS	
A complex or a group Proteins physically connected into a complex or related as a family	
Logical association Proteins linked by logical relations or physical interactions	
Custom association Group of collapsed objects chosen by user	

INTERACTIONS BETWEEN OBJECTS

EFFECTS
Positive / activation
Negative / inhibition
Unspecified

MECHANISMS
PHYSICAL INTERACTIONS
B Binding Physical interaction between molecules
C Cleavage Cleavage of a protein at a specific site yielding distinctive peptide fragments. Proteolytic cleavage can be carried out by both enzymes and compounds
CM Covalent modifications Covalent binding of a small chemical groups to protein amino acids or DNA/RNA nucleotides.
+P Phosphorylation Protein activity is altered via addition of a phosphate group
-P Dephosphorylation Protein activity is altered via removal of a phosphate group
T Transformation Protein activity regulation by binding & hydrolysis of GTP
Tn Transport Transport of a protein or a compound between organelles
Z Catalysis Catalysis of an enzymatic reaction
Tr Transcription regulation Physical binding of a transcription factor to target gene's promoter
Co-RT Co-regulation of transcription Influences on gene expression by direct binding with transcription machinery or by chromatin remodelling
Rg Regulation Influence on the biochemical reaction by changing its composition
M MicroRNA binding Regulation of gene expression by binding of microRNA to target mRNA
FUNCTIONAL INTERACTIONS
IE Influence on expression Indirect influence of chemical compound or protein on the amount of another protein
Cn Competition When two molecules compete for the interaction with the third molecule
? Unspecified interactions Influence on activity of protein or RNA without determined mechanism
Pr Processing Protein is a product of posttranslational modification.
PE Drug-Drug interactions. Pharmacological effect Drugs change pharmacological effects of other drugs, for instance by competing for drug metabolism enzymes or organic transporters
TE Drug-Drug interactions. Toxic effect Drugs change toxic effects of other drugs, for instance by competing for drug metabolism enzymes or organic transporters
LOGICAL RELATIONS
GR Group relation Object belongs to a generic group of related objects
CS Complex subunit Protein is a subunit of a protein complex
SR Similarity relation Chemically similar compounds with chosen Tanimoto similarity score

LINKS ON NETWORKS
Incoming interaction When the mouse is over object, yellow link indicates direction to object
Outgoing interaction Cyan link indicates direction FROM the object
INTERACTIONS FROM CUSTOM LIST (MetaLink™)
Interaction is in the network Interaction is represented by a thin solid line and is highlighted in blue
Interaction is in the base, but not in network Interaction is highlighted in yellow
Interaction is in the network Interaction is highlighted in magenta
CANONICAL PATHWAYS
Canonical pathway The link is highlighted in a thick cyan or magenta line
LINKS ON MAPS
Disrupts in disease
Weakens in disease
Emerges in disease
Enhances in disease
Species specific interactions

OBJECTS ON MAPS

LOCALIZATION	OTHER MAP OBJECTS
Mitochondria	Note
EPR	Normal process
Golgi	Pathological process
Nucleus	Normal process
Lysosome	Pathological process
Peroxisome	Species specific object
Cytoplasm	Path start
Extracellular	

THOMSON REUTERS REGIONAL OFFICES

North America

Philadelphia
+1 800 336 4474
+1 215 386 0100

Latin America

+55 11 8370 9845

Europe, Middle East and Africa

Barcelona +34 93 459 2220
London +44 20 7433 4000

Asia Pacific

Singapore +65 6775 5088
Tokyo +81 3 5218 6500

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