A

-1 amino acid
sorted by BLOSUM distance to aspartic acid

B

LAT Tyr 127
LAT Tyr 132
LAT Tyr 171
LAT Tyr 191
LAT Tyr 226

C

human NRTKs
(32 sequences)

human Lck
D326; S332; A368; R397; K401; K405; G415; I439; P442; G443; T445

human ZAP-70
K424; R430; R430; R430; K500; K504; R514; K538; K542; K544

ZAP-70 orthologs
(87 sequences)

D

net charge on kinase domain

number of human NRTKs