

Validated GPCR protein sequences

align

PVRQN-GCCMA-KMVLVWLLSASITLPP-L--FG-WAQ
NTRYs-SKRRVTVMIAIVWVLSFTISCPL-L--FG-LNN
SPTAR-MWPSLCLALQTLWRTHQKESSEr-L--FD-LYK
GTGQS-SCRRVAFMITAVWVLAFAVSCPL-L--FG-LNT
RSLQNKRSHTV-VSIAVWVFSFLLYGPVIL----SWKN

assign residues to GPCR domain

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IIIII-I MMMM-MMMMMMMMMMMMMMMMMMMMMM-M--ME-EEE
IIIII-I III MMMMMMMMMMMMMMMMMMMMMMMM-M--MM-MEE
IIMMM-MMMMMMMMMMMMMMMMMMMMMMEEEEEE-E--EE-EEE
IIIII-I III MMMMMMMMMMMMMMMMMMMMMMMM-M--MM-MEE
IIIIII III MM-MMMMMMMMMMMMMMMMMMMMMM---MEEE

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consensus domains

remove highly discordant sequences

yes

sequences removed?

no

**alignment
completed**