

Validated GPCR protein sequences

align

PVRQN-GCCMA-KMVLSVWLLSASITLPP-L--FG-WAQ
NTRYs-SKRRVTVMIAIVWVLSFTISCPL-L--FG-LNN
SPTAR-MWPSLCLALQTLWRTHQKESSER-L--FD-LYK
GTGQS-SCRRVAFMITAVWVLAFAVSCPL-L--FG-LNT
RSLONKRSHTV-VSIAVWVFSFLLYGpVIL----SWKN

**assign residues
to GPCR domain**

I I I I - I	MMMM - MMMMMMMMMMMMMMMMMMMM - M - - ME - EEE	✓
I I I I - I I I	MMMMMMMMMMMMMMMMMMMMMMMM - M - - MM - MEE	✓
I I	MMM - MMMMMMMMMMMMMMMMMMMM EEEEEEE - E - - EE - EEE	✗
I I I I - I I I	MMMMMMMMMMMMMMMMMMMMMMMM - M - - MM - MEE	✓
I I I I I I I I	MM - MMMMMMMMMMMMMMMMMMMM - - - - MEEE	✓

•
•
•

IIIIIIIIIIIMMMMMMMMMMMMMMMMMMMMMMMEEEE consensus domains

remove highly discordant sequences

yes

sequences removed?

no

**alignment
completed**