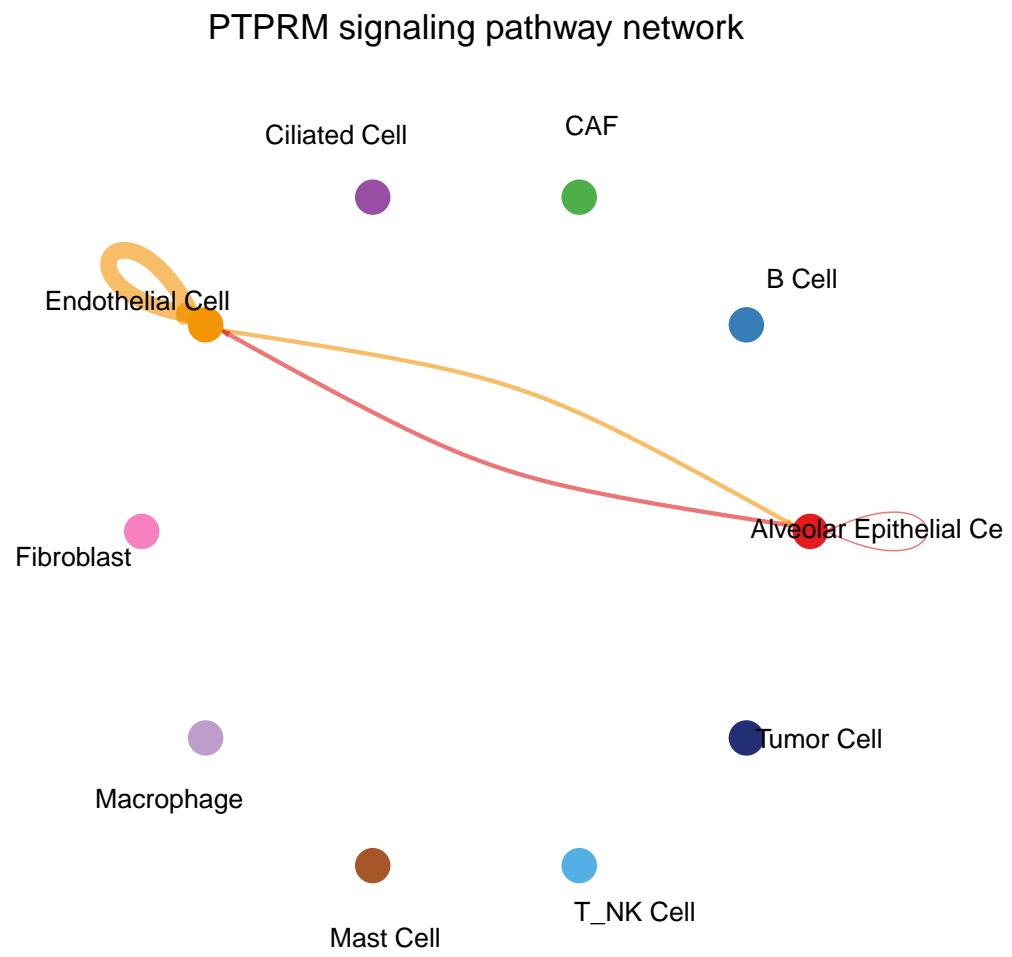
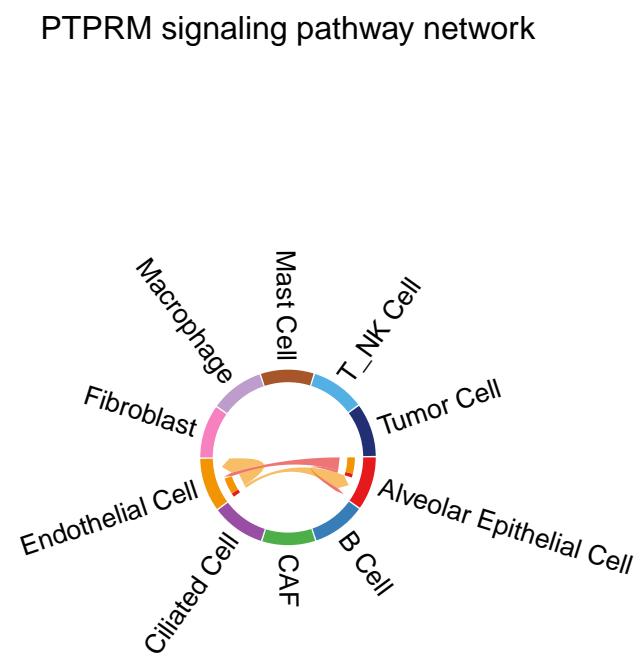


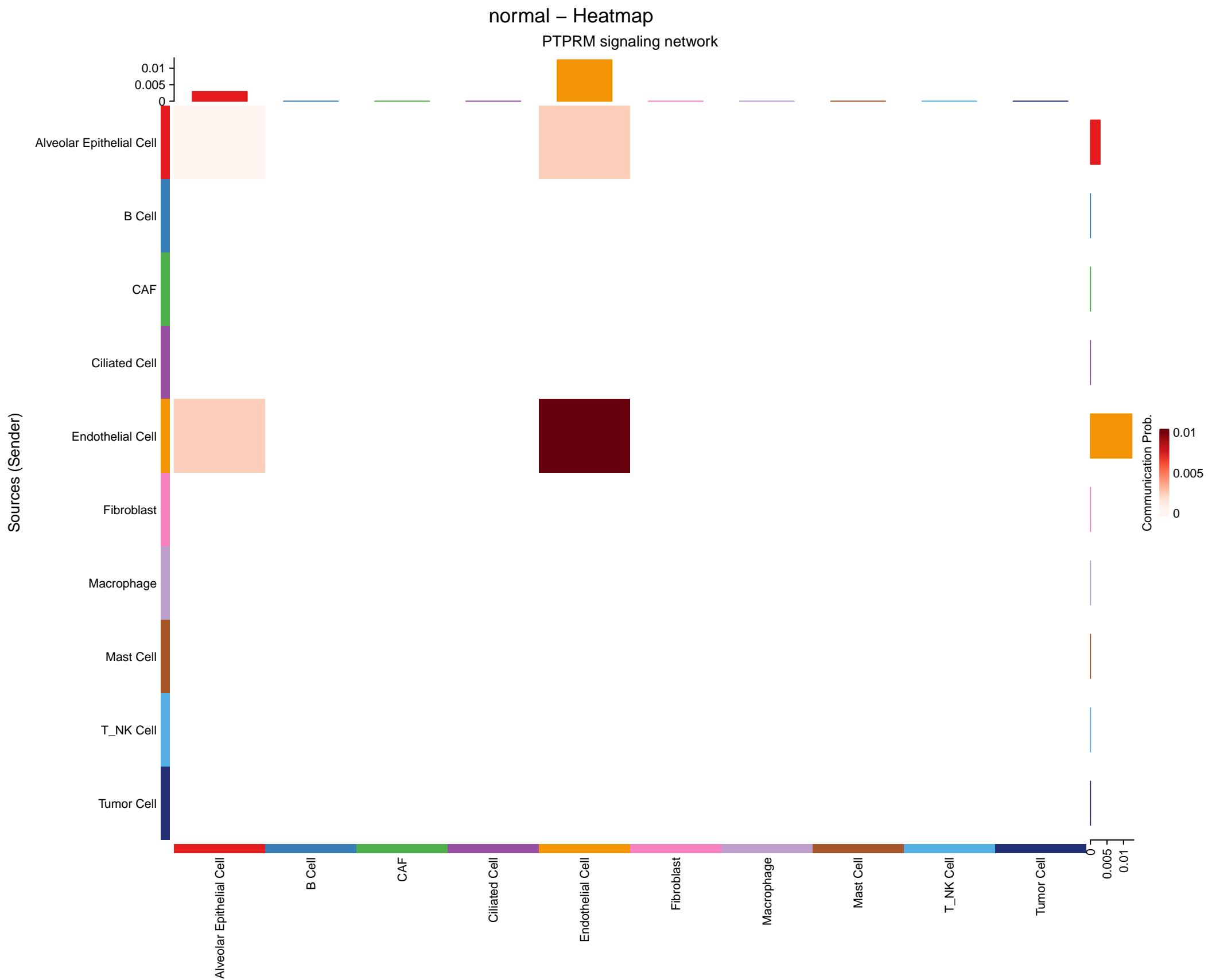


**normal – Circle**



**normal – Chord**



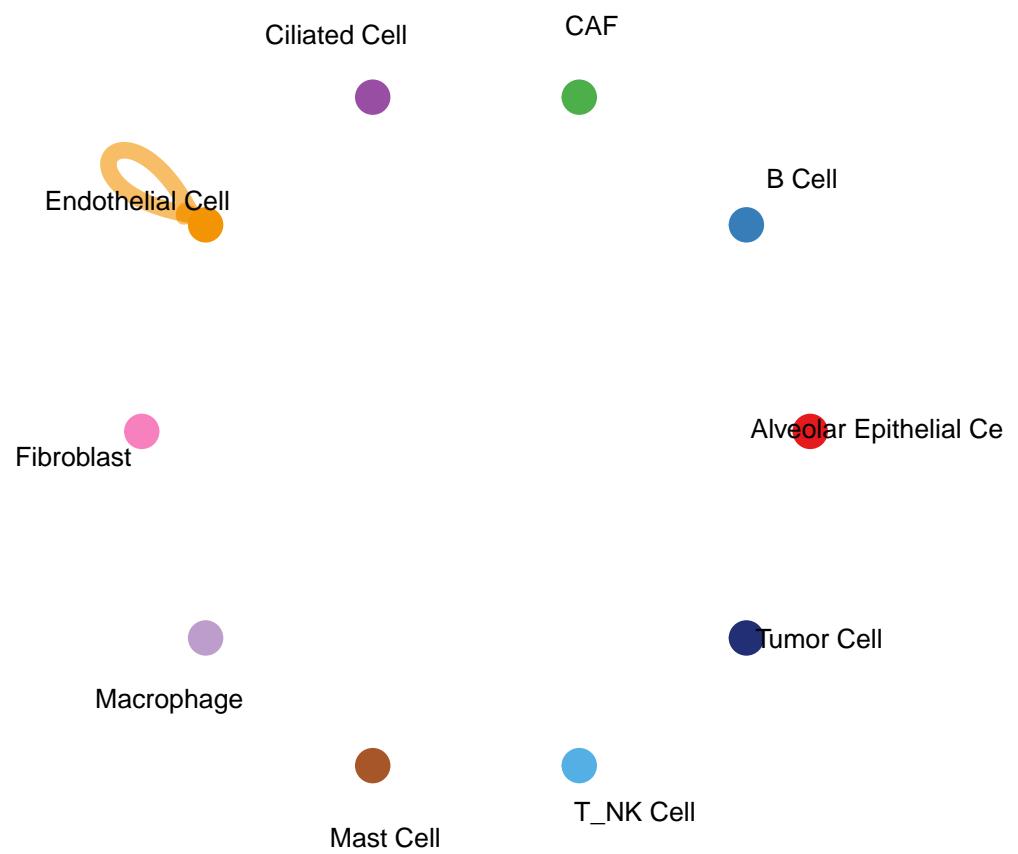




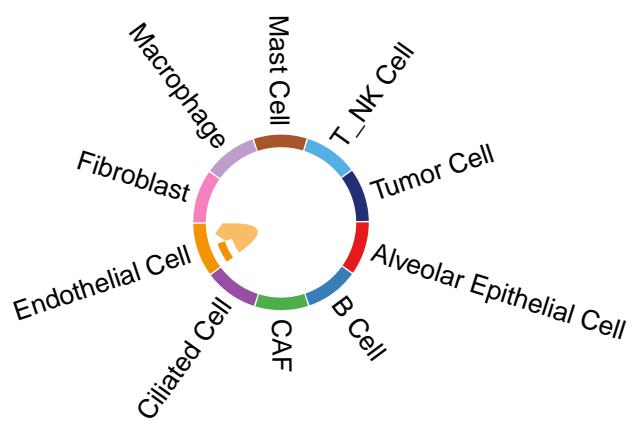
early – Circle

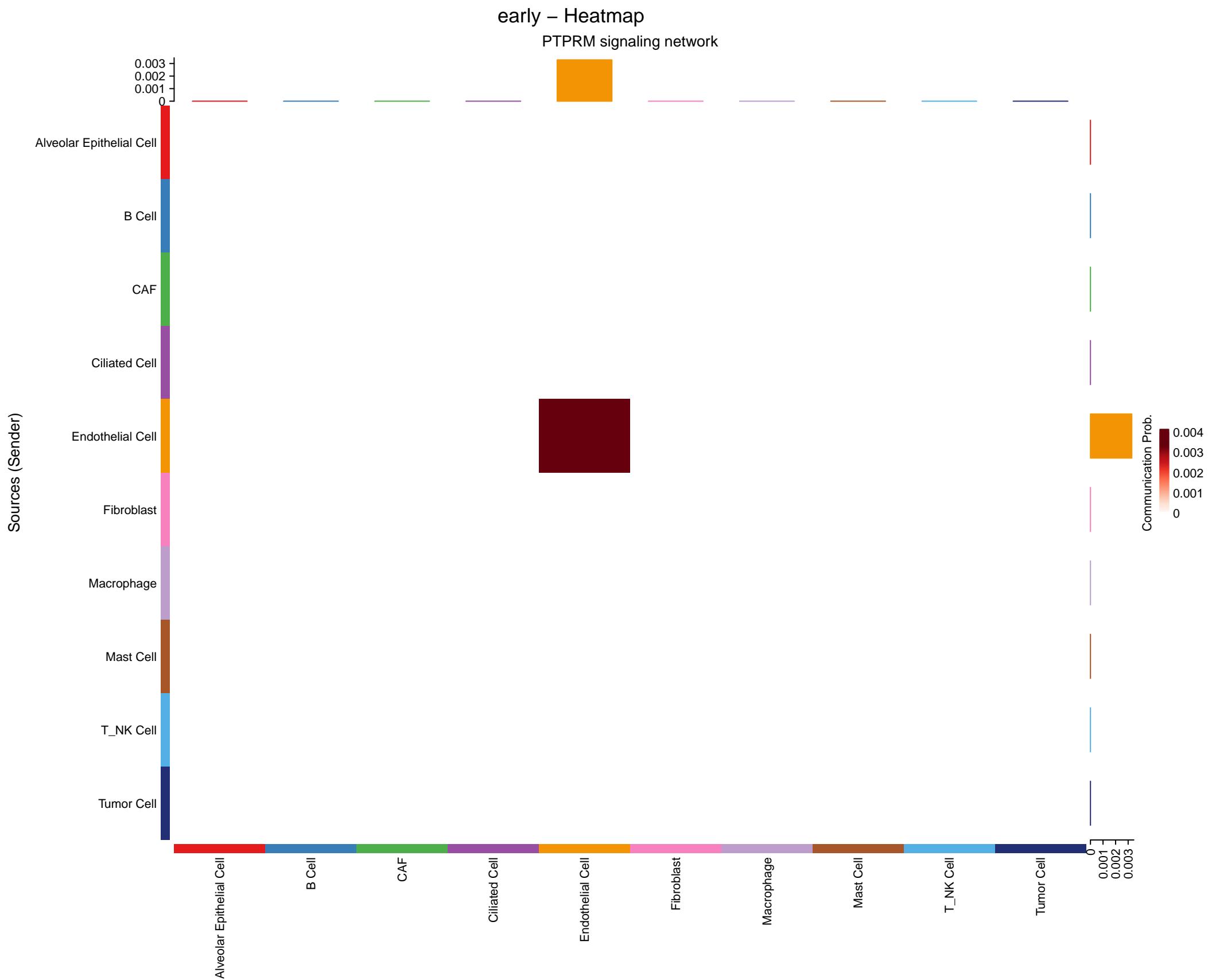
early – Chord

PTPRM signaling pathway network



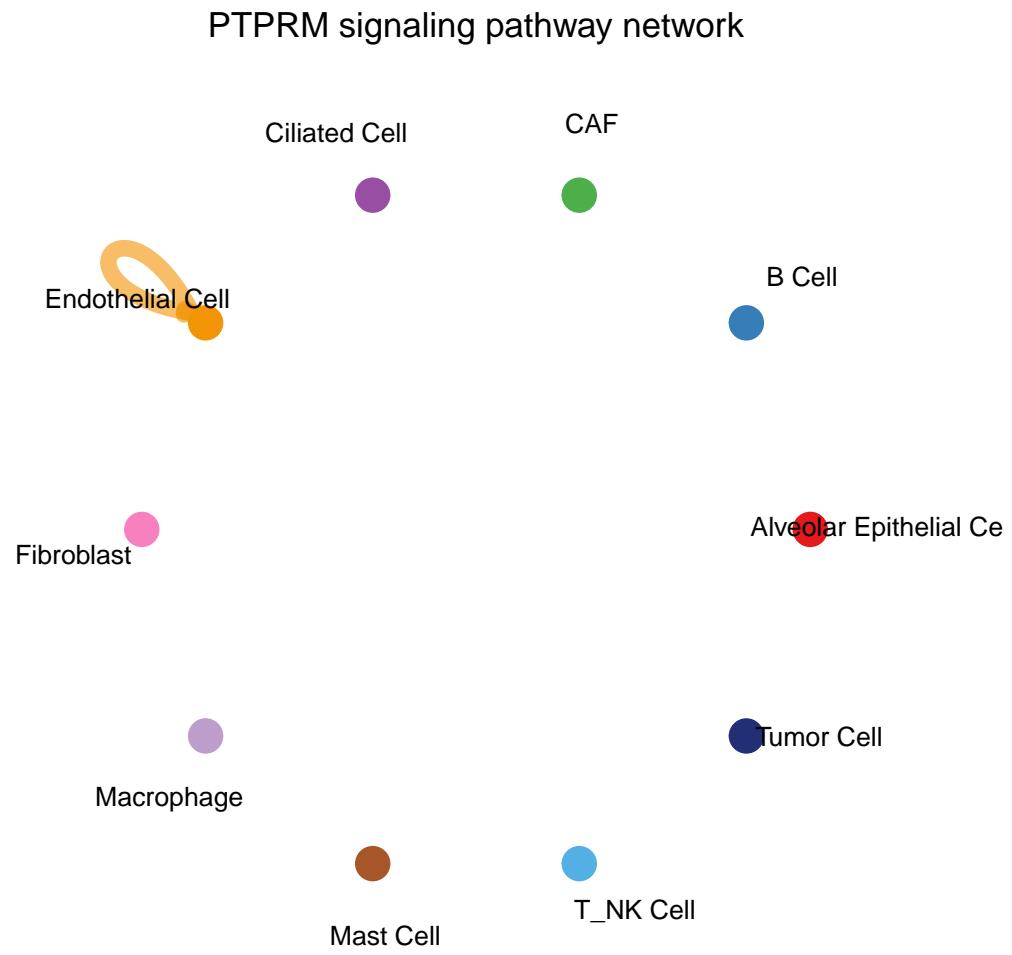
PTPRM signaling pathway network



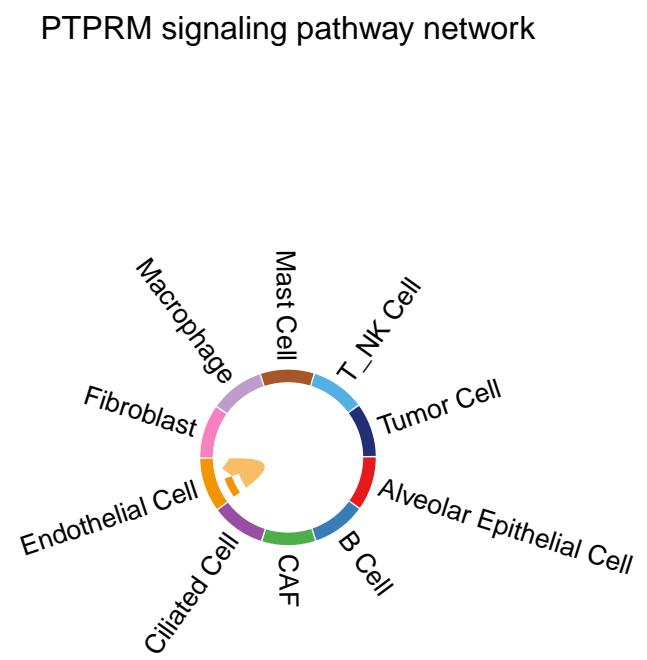


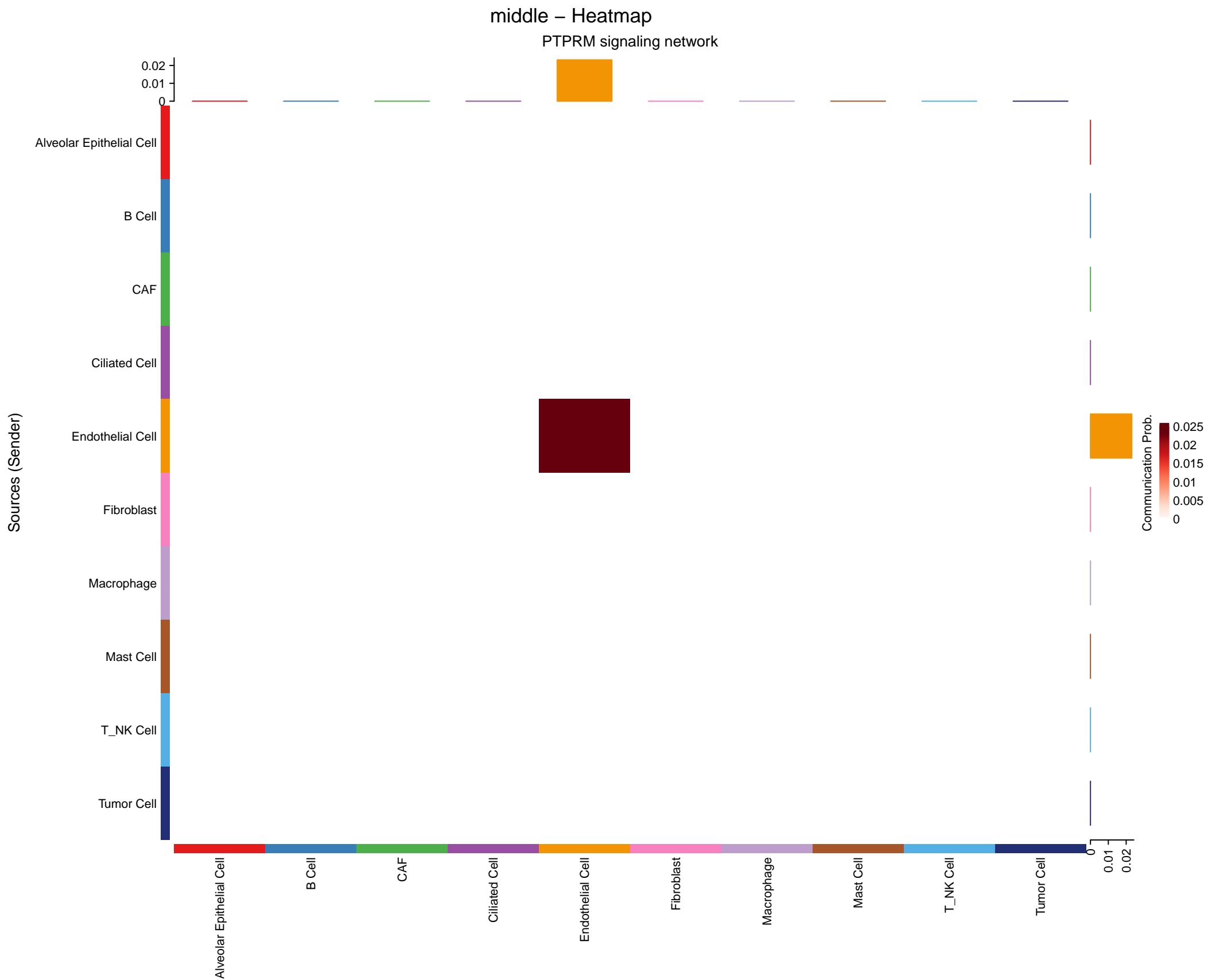


### middle – Circle



### middle – Chord





# PTPRM – Information Flow

