





- Prenyl transferase links up isoprenyl units by condensation-elimination of pyrophosphate Prenyl transferase starts with one unit of dimethylallyl pyrophosphate, and <u>arrange in a line</u> the pyrophosphate (head end) with the terminal double bond of isopentenyl pyrophosphate (tail end).
- Elimination of the pyrophosphate (a good leaving group) creates a **carbocation**, which then reacts with isopentenyl double bond; a basic group in the enzyme then removes a proton from C-2 of the isopentyl.