```
logo
IGHV4-4 08          QVQLQESGP.GLVKPSETLSLTCTVSGGSI....SSYYWSWIRQPPGKGLEWIGYIYTS...GSTNYNPSLK.SRVTISVDTSKNQFSLKLSSVTAADTAVYYCA    96
IGHV4-4 09          QVQLQESGP.GLVKPSETLSLTCTVSGGSI....SSYYWSWIRQPPGKGLEWIGYIYTS...GSTNYNPSLK.SRVTISVDTSKNQFSLKLSSVTAADTAVYYCA    96
IGHV4-4 07          QVQLQESGP.GLVKPSETLSLTCTVSGGSI....SSYYWSWIRQPAGKGLEWIGRIYTS...GSTNYNPSLK.SRVTMSVDTSKNQFSLKLSSVTAADTAVYYCA    96
IGHV4-4 07 a70g     QVQLQESGP.GLVKPSETLSLTCAVSGGSI....SSYYWSWIRQPAGKGLEWIGRIYTS...GSTNYNPSLK.SRVTMSVDTSKNQFSLKLSSVTAADTAVYYCA    96
IGHV4-4 02          QVQLQESGP.GLVKPSGTLSLTCAVSGGSIS...SSNWWSWVRQPPGKGLEWIGEIYHS...GSTNYNPSLK.SRVTISVDKSKNQFSLKLSSVTAADTAVYYCA    97
consensus           !!!!!!!!! !!!!!!*!!!!!!*!!!!!!    !!**!!!*!!!*!!!!!!!! !!*!   !!!!!!!!!!! !!!!*!!!*!!!!!!!!!!!!!!!!!!!!!!!!
```

```
logo
IGHV4-4 08          R     97
IGHV4-4 09          R     97
IGHV4-4 07          R     97
IGHV4-4 07 a70g     R     97
IGHV4-4 02          R     98
consensus           !
```

X non conserved

X ≥ 50% conserved