$$\Psi_{86} = C_1 \left(-|002d\rangle + |00d2\rangle + |020d\rangle + |02d0\rangle + |0d02\rangle - |0d20\rangle - |200d\rangle - |20d0\rangle - |2d00\rangle + |d002\rangle - |d020\rangle + |d200\rangle\right)$$

$$C_1 = \frac{1}{2\sqrt{3}}$$