$$\Psi_{212} = C_1 \left(|022d\rangle + |02d2\rangle + |0d22\rangle - |202d\rangle - |20d2\rangle + |220d\rangle - |22d0\rangle + |2d02\rangle - |2d20\rangle - |d022\rangle + |d202\rangle - |d220\rangle\right)$$

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