$$\Psi_{235} = C_1 \left(|22du\rangle + |22ud\rangle - |2du2\rangle - |2ud2\rangle + |d22u\rangle + |du22\rangle + |u22d\rangle + |ud22\rangle\right)$$

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