$$2020 = \phi^{15} + \phi^{13} + \phi^{10} + \phi^{5} + \frac{1}{\phi} + \frac{1}{\phi^{3}} + \frac{1}{\phi^{6}} + \frac{1}{\phi^{11}} + \frac{1}{\phi^{16}} = 11111100100_{\text{two}}$$