A Polynomial-Time Reduction

3-SAT $\propto$ Clique

Let the Boolean expression B denote an instance of 3-SAT.
Thus $B = C_1 \wedge C_2 \wedge \ldots \wedge C_k$, where $C_i = (v_{i1} \vee v_{i2} \vee v_{i3})$ for $1 \leq i \leq k$.

Construct an undirected graph, G, as follows.
$V = \{[i,j] | 1 \leq i \leq k \text{ and } 1 \leq j \leq 3\}$.
$E = \{([i,j],[l,m]) | i \neq l \text{ and } v_{ij} \neq \overline{v_{lm}}\}$.

Claim: B is satisfiable iff G has a clique of size at least k.