function [ strand2 ] = mutate( strand, n )

%MUTATE Takes one genetic strand and randomly mutates 'n' elements.

strand2 = strand;

for i = 1:n

    spot = ceil(rand()\*length(strand));

    if strand(spot) == 0

        strand2(spot) = 1;

    else

        strand2(spot) = 0;

    end

end

end