Limited Proximity Sieve

LPS adjusts given inputs for primality and lists nearby primes. LPS performs the sieve of Eratosthenes on an interval beginning with the given random number where modular operations with products of primes reveal values near the random number who are multiples of the product constituents, from there modular operations are continued with values of significantly reduced length. (My algorithm from 2018.) This can be used as an extremely fast probabilistic pretest in formal tests. Proof of concept: