## Genome Sequence of the Clinical O4:K12 Serotype *Vibrio parahaemolyticus* Strain 10329<sup>∇</sup>

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Vibrio parahaemolyticus is the leading cause of food-borne illnesses worldwide. Here, we report a draft genome of V. parahaemolyticus strain 10329 of the O4:K12 serotype. It belongs to the main U.S. West Coast clonal complex of V. parahaemolyticus (sequence type 36 [ST36]) causing oyster-associated human illness. It contains the virulence determinants tdh and trh but appears to infect at much lower doses than V. parahaemolyticus strains with these same determinants from other areas, such as the U.S. Gulf and Atlantic coasts.

Vibrio parahaemolyticus is a natural inhabitant of coastal waters and is the leading cause of seafood-borne gastroenteritis (12). Since 1996, V. parahaemolyticus infections and outbreaks have increased in numbers throughout the world, caused mostly by strains belonging to the V. parahaemolyticus pandemic clonal complex (VpPCC) (4, 9-11). The emergence of this VpPCC has elevated public health concerns regarding worldwide spread of V. parahaemolyticus, previously uncharacteristic for this pathogen. Serology, the historic hallmark for V. parahaemolyticus epidemiologic surveillance, has been unreliable in tracking the spread of this VpPCC. In addition to the original O3:K6 serotype, at least 11 other sero-variants associated with the pandemic clonal strains have been identified (2). The existence of other clonal complexes (CC) of V parahaemolyticus (CC36 and CC34) other than the VpPCC were recently observed among coastal U.S. strains (5). CC36 has been linked almost exclusively to outbreaks associated with the consumption of raw oysters harvested from the U.S. Pacific Coast since the 1970s (1). Whereas CC36 has been geographically restricted, it is similar to the VpPCC in that it displays multiple serotypes (O4:K12 and O12:K12) within the ancestor ST36 and consists of at least six different sequence types (STs).

So far, only one complete genome sequence of a O3:K6 V. parahaemolyticus strain, RIMD2210633 (GenBank accession numbers BA000031 and BA000032 for chromosomes I and II, respectively), which belongs to the VpPCC, has been reported and deposited in GenBank (8). This is a clinical isolate carrying tdh and lacking both the trh and the ure cluster genes, all of which are virulence markers. Recently, a few V. parahaemolyticus draft genomes have become available, those for prepandemic O3:K6 strain AQ3810 (carrying tdh and lacking trh and ure), believed to be an ancestral strain of the VpPCC (3), and prepandemic O3:K6 strain AQ4037, VpPCC O4:K68 strain

Genomic DNA was isolated from overnight cultures using a Wizard genomic DNA purification kit (Promega, WI). The genomes were sequenced by BGI (BGI, China) using highthroughput pair-end Illumina sequencing technology (Illumina), according to the manufacturer's instructions at a 100× coverage. Sequencing libraries were constructed according to the manufacturer's instructions (Illumina). Shorts reads for 10329 were assembled into genomic sequences using SOAPdenovo, an in-house assembler based on the de Bruijin graph theory, and gaps were filled using mapping information (7). A total of 9 scaffolds were obtained, with a total length of 5,113,034 bp. A total of 4742 genes were discovered, with an average GC content of 46.32% per gene. The complete V. parahaemolyticus strain RIMD2210633 genome sequence was employed as a reference. Sequences were annotated using the NCBI Prokaryotic Genomes Automatic Annotation Pipeline (http: //www.ncbi.nlm.nih.gov/genomes/static/Pipeline.html) (6).

A detailed report of a full comparative analysis between 10329 and the genomes of other available *V. parahaemolyticus* isolates will be included in a future publication.

**Nucleotide sequence accession number.** The draft genome sequence for *V. parahaemolyticus* strain 10329 is available in GenBank under accession number AFBW00000000.

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AN-5034, strain 16, strain K5030, and strain Peru-466 (http://www.ncbi.nlm.nih.gov/genomes/lproks.cgi). In the present publication, we announce a draft genome sequence for *V. parahaemolyticus* serotype O4:K12 isolated from a clinical case in Washington State (5). This strain belongs to CC36, is ST36, and carries the *tdh*, *trh*, and *ure* cluster genes (5).

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