

Validation strains

Reference strain from Insignia			
<i>Vibrio cholerae</i> Pacini N16961		biovar eltor, serovar O:1, serotype Inaba	stool from cholera patient, Bangladesh
Inclusive strains			
ID #	Scientific Name	Serogroup	Source
NIH 42	<i>Vibrio cholerae</i>	O1	Mathbaria, Bangladesh clin. 2004
NIH 460	<i>Vibrio cholerae</i>	O1	Bakerganji, Bangladesh env. 2005
RC 121	<i>Vibrio cholerae</i>	O1	G.B. Nair; India, 1993, clinical
RC 144	<i>Vibrio cholerae</i>	O1	Mexico, first case, 1991
RC 145	<i>Vibrio cholerae</i>	O1	
RC 18	<i>Vibrio cholerae</i>	O1	Chile, 1991(?)
RC 25	<i>Vibrio cholerae</i>	O1	Mexico, 1991
RC 290	<i>Vibrio cholerae</i>	O1	Louisiana, 1978
RC 291	<i>Vibrio cholerae</i>	O1	From U.S. tourist returning from Cancun, Q. Roo, 1983
RC 610	<i>Vibrio cholerae</i>	O1	Tenanguillo, Edo. de Mexico
RC 618	<i>Vibrio cholerae</i>	O1	Tlaxcoapan, Hidalgo
RC 637	<i>Vibrio cholerae</i>	O1	Manzanillo, Colima
RC 72	<i>Vibrio cholerae</i>	O1	CDC, Cheryl Bopp/Joy Wells; received 3/12/05
RC 773	<i>Vibrio cholerae</i>	O1	Clinical isolate
RC 90	<i>Vibrio cholerae</i>	O1	Clinical, Lima, Peru; host for Peru phage 15
NIH 215	<i>Vibrio cholerae</i>	O139	Mathbaria, Bangladesh env. 2004
RC 106	<i>Vibrio cholerae</i>	O139	G.B. Nair; India, 1993, clinical
RC 30	<i>Vibrio cholerae</i>	O139	Bangladesh
RC 33	<i>Vibrio cholerae</i>	O139	India, 1985
RC 34	<i>Vibrio cholerae</i>	O139	Thailand, 8/25/1993
RC 36	<i>Vibrio cholerae</i>	O139	India, 1992 (P. Echererria); Stine et al., 2000
RC 37	<i>Vibrio cholerae</i>	O139	Zaire, 1978
RC 38	<i>Vibrio cholerae</i>	O139	Kenya
NIH 111	<i>Vibrio cholerae</i>	non-O1/non-O139	Mathbaria, Bangladesh env. 2004
NIH 172	<i>Vibrio cholerae</i>	non-O1/non-O139	Mathbaria, Bangladesh env. 2004
NIH 60	<i>Vibrio cholerae</i>	non-O1/non-O139	Mathbaria, Bangladesh env. 2004
NIH 63	<i>Vibrio cholerae</i>	non-O1/non-O139	Mathbaria, Bangladesh env. 2004
RC 242	<i>Vibrio cholerae</i>	non-O1/non-O139	I.G. Rivera, Brazil. Sewage
RC 380	<i>Vibrio cholerae</i>	non-O1/non-O139	Chesapeake Bay 98/102
RC 477	<i>Vibrio cholerae</i>	non-O1/non-O139	Chesapeake Bay 98/103
RC 525	<i>Vibrio cholerae</i>	non-O1/non-O139	Chesapeake Bay 98/101
RC 570	<i>Vibrio cholerae</i>	non-O1/non-O139	Chesapeake Bay 98/99
RC 572	<i>Vibrio cholerae</i>	non-O1/non-O139	Chesapeake Bay 98/100
RC 648	<i>Vibrio cholerae</i>	non-O1/non-O139	Chicoloapan, Edo. De Mexico
RC 651	<i>Vibrio cholerae</i>	non-O1/non-O139	Tampico, Tamaulipas
RC 678	<i>Vibrio cholerae</i>	non-O1/non-O139	Coatzacoalcos, Veracruz
RC 680	<i>Vibrio cholerae</i>	non-O1/non-O139	Veracruz, Veracruz
RC 69	<i>Vibrio cholerae</i>	non-O1/non-O139	I.G. Rivera; S. Paulo, marine sed
RC 708	<i>Vibrio cholerae</i>	non-O1/non-O139	Peru
RC 709	<i>Vibrio cholerae</i>	non-O1/non-O139	Peru
RC 710	<i>Vibrio cholerae</i>	non-O1/non-O139	Peru
RC 782	<i>Vibrio cholerae</i>	non-O1/non-O139	Fish from the Elbe River
RC 101	<i>Vibrio cholerae</i>	non-O1	Mexico, clinical
RC 60	<i>Vibrio cholerae</i>	non-O1	I.G. Rivera; Brazil, seawater
RC 63	<i>Vibrio cholerae</i>	non-O1	I.G. Rivera; S. Paulo, seawater
Exclusive strains			
ID #	Scientific Name	Serogroup	Source
RC 5	<i>Vibrio mimicus</i>		Ear, 35-year-old female, North Carolina
RC 255	<i>Vibrio aestuarianus</i>		Oyster, Oregon
RC 256	<i>Vibrio alginolyticus</i>	serotype XII	Spoiled horse mackerel which caused food poisoning, Japan
RC 257	<i>Vibrio fluvialis</i>	biotype 1	Human feces, Dacca, Bangladesh
RC 258	<i>Vibrio furnissii</i>		Human feces, Japan
RC 261	<i>Vibrio diazotrophicus</i>		Sea urchin gastrointestinal tract, Canada
RC 263	<i>Vibrio campbellii</i>		Seawater
RC 266	<i>Vibrio tubiashii</i>		Juvenile hard clams, Mercenaria mercenaria
RC 277	<i>Vibrio hollisae</i>		Human feces, Maryland
RC 304	<i>Vibrio parahaemolyticus</i>		Shirasu food poisoning, Japan
RC 745	<i>Vibrio metschnikovii</i>		Peru
RC 783	<i>Vibrio mediterranei</i>		CIP 107136
ATCC 10798	<i>Escherichia coli</i>		Feces from diphtheria convalescent
ATCC 14390	<i>Vibrio alginosus</i>		
ATCC 25521	<i>Photobacterium leiognathi</i>		Light organ of teleostean fish in the family Leiognathidae
ATCC 25915	<i>Photobacterium angustum</i>		Seawater
ATCC 27390	<i>Vibrio abalonicus</i>		Wound infection of abalone
ATCC 29988	<i>Vibrio gazogenes</i>		Marine mud, Woods Hole, MA
ATCC 35912	<i>Vibrio cincinnatiensis</i>		Blood and cerebrospinal fluid, Ohio
ATCC 43979	<i>Aeromonas sobria</i>		Fish
ATCC 51183	<i>Vibrio navarrensis</i>		Sewage, Villafranca, Navarra, Spain
ATCC 51288	<i>Vibrio myliti</i>		Mussels, Mytilus edulis, Spain
ATCC 700797	<i>Vibrio aerogenes</i>		Seagrass bed sediment, Nanwan Bay, Taiwan, 1993

Assay design sequences

Chromosome	Sequence	Gene	Probe Sequence	Forward Primer	Reverse Primer
1	89	Hypothetical Protein	ITCAGCGGCATCTTCAGGCACCT	ATTATTTAGAAAGCGGATTTGATGACG	GATATTGGTGTCTAAACCTCTGG
1	727	Hypothetical Protein	ACCACATATTCGCGCCGCGCT	TTCTTGCAGTAAATCACTCAGG	TCTGTATTTGGGAAATAGAGTAAG
1	1640	Hypothetical Protein	CAGTTCGATCAAGGATTTGGG	CGGTAATGAATGAGATTTGGG	CTTCCACCAGTGAAGATGGC
1	1803	Inner Membrane Protein	AGCCGACACACACACCCGAT	AAGGTCATGATCTTCTGTTGC	GTTCCAGCATGTTCCGTTATC
1	1951	Inner Membrane Protein	ACCGACTCCATCAGTCCGAGT	CCAAACAAAGAAATGGAGAGTG	CCCTATCTCTGCAAAATGC
1	2572	Inner Membrane Protein	CGAAAGCCCTTCGCGGAGAGG	TGATGGTGAATTTGAACCAATCC	CGCTTCGGAGAGGTTAAACGC
1	1483832	Deoxyribodipyrroline photolase, putative	CAGCCCGCTCCCAATCCACA	ACTGTGCGATGCCTGTATGC	AGGAAACAGTTGGCCCAAAATAG
1	1488652	Chemotaxis protein CheA	ACGAAAGTAGACCTGGTGGCG	GGCTTTGTCATCGGGATTCG	AACGTTACCTTTGATGCTGGG
1	1504110	VceA, multidrug resistance protein	AGTGACAGTCCGCGCCGCAA	AGGAACTACCGATCCAAACCC	AGTGCCCATCTCGACAGAGG
1	1566855	Vibrio cholerae Rtx toxin gene cluster	CTGGCGGCTGTCTTTGCTGCTC	TGGTTAGCCGCTAGTAGGATTTG	CGGGAATCCACTGGACTTAGG
1	1569435	Hypothetical protein	CGCCACCCGATAGCAGCAGGCC	TCATGGTGTGCGAGTTGCTGTG	CTAACCCAGACCAACCCAAATCC
1	1589186	Hypothetical protein	TCAAGCCGTTCCACCGTGCGA	TCCATGCACGGGTATATAAGGC	TGACAACGTTATCGTAGAAACGC
1	1595270	Conserved hypothetical protein	ACTGTGTGGCCGCAAAACGCTTCC	AGGGAGTTTCGTAGAGATATACAG	AGCCTGTAAAGCGGGAGTTG
1	1605417	Hypothetical protein	TGCACCTGCCTCAGCTACCGCCA	TCAAAGTTTTCGCGCATCAAGATC	TTGCTGACATTTGAATGGTFAACC
1	1653990	DNA ligase	CGCCGAGCCGCGCAAGATTGGT	AACAAAACGGGCAAAACCTTTGG	CGGCAGTGGATTTAGTGATGTC
1	1667135	Conserved hypothetical protein	CCCAAGCCGAGCGTGGGTGAA	CCGCCACAAAAGGCAATTTCC	GATCGTGGTTCGCCAGAAAG
1	1677811	Conserved hypothetical protein	CGCCCGATGACCAACGAGCAGC	CACCCAAACGAAATTCACAGC	CCAAAGTAGGCGACAGTAAGC
1	1685459	Hypothetical protein	CGGCCCAACACACACAGGCC	TTGCTGCGAAAGGGCAATAG	CTGGGTAGACCATTAACACTCG
1	1693955	Conserved hypothetical protein	ATCGCCACGAGCAGCACCGCT	ACATTTCTGCGAGCGTTGGG	GCAGCAGGCTCCACAAATCC
1	1700878	Acetolactate synthase	ATGCCAGCCACCAAGCCACTGC	TGGCTGTTACTCTGGACTG	GGTGCCACGACAGGTAAAC
1	1703878	Conserved hypothetical protein	TTGACCAAGCTGCCGCGCCCT	CGAGGCCCTCAAAAAGTCC	AAGCTGTAATCGATCCCGAAG
1	1714319	Hypothetical protein	ACCTAGCCAGCCACCGACCGGT	CGGCAATATCAGGCCATCCC	CCGCCAGCTTACAAAGCC
1	1716433	Response regulator	ITCACCTGCGCTGCTCCGCGCT	GGGCTGTTGTCGGGCTAG	ACGTTTACCAGAAAGGCAATTGAC
1	1719825	Conserved hypothetical protein	TTGGCTCCCACTGACCGAGGGT	GCTGCAACAAACAAACAACTCG	AAAAGTTTACATCTCTGATCAAGCC
1	1733322	Cadherin-related protein, authentic point mutation	TGGACCGCTGTGGTGCCTTCA	CTGCTACTGTGTCGGTACAG	CCAAAAGCAATGGCGTAATGC
1	1740118	Cadherin-related protein, authentic point mutation	TCGCTGTGCGCCGCTGCTGC	TGGGCTGCTGCTGCCATTAC	CACAGGTACAGCGACCACTAC
1	1750706	Na <sup>+</sup> /H <sup>+</sup> antiporter protein	CCTACCCCGCTATCGCAGGGA	TAATGCAAGGAGCAGCATACC	AACGTGAACTGCTGGAAGGAG
1	1764566	Sensor histidine kinase	ACGCTTGGCTCAGCGCTGTTGT	ACTGTCAGCCACTTTTAGGC	CCGTGAACATGGGTTCTCTCG
1	1780451	Response regulator VieA	ACGGCGTAAGCCCATGCCGAT	CAAGATTTGCCAGCCATCATCC	TTGGGTAGATACTTGCCTAAGG
1	1796491	ABC transporter, permease protein, putative	CCACCTTGTGCTCGCGCGGG	GTCAGTCTGGCGCAGTATCTC	TTGGCAGAGGGCGTAAATGG
1	1814423	Peptide ABC transporter, permease protein	CCGACCTCGCTTGGACGCTGA	ATGGTGGCTACAGCTTAGC	TCCATCAGTTGCCCAAAATAGC
1	1821759	Hypothetical protein	TGCCACAGTTGCCGGTGTGCC	AGGTGAGCGTTAAGCAATCCG	GCCAAATTTGCCCGTGAACCC
1	1830062	Conserved hypothetical protein	CGACTGCGCTGCCACCGCTG	CGCAGCTGACCGAGTAGC	TCCACAAATCCGTTTCTCC
1	1839488	Conserved hypothetical protein	CGAGGCCACACCAACAGAGC	AACACCACAGAAACGCTTC	ACAAGTATTGCCCTGGGTTAGC
1	1878621	Hypothetical protein	TCGCCCCAACCAACCCAGCCAGA	AGCGTTAGAAATGCTCGAATGG	GGCGAGGTAATGACTTCAACAC
1	1883005	Hypothetical protein	ACCTAACACGCCACCATGCCG	GAATGCCAGGCTATTACCAAGG	GCAAATTTGTAAGCTGTGCTG
1	1888208	Paraquat-inducible protein A	TCCTTCTGTGGCACCTGGGCTCTT	GGCTCAAGCATATTGCAAGGG	CCAACCCGAGTGCAAAATTTG
1	1917029	Hypothetical protein	CTGCCCTACGCTTGTCTGCC	AAGGTAATTCGAATGCTGTAGC	CGAATGTGATGACGCCAAATATG
2	113	Hypothetical Protein	TCGTTCCGCTTACGGCTCGCT	GCACCGTTTTGAAGTATGATG	TCAGAAATGGCATTCACCGTAAAC
2	1394	Hypothetical Protein	TGGTTTTGCCAGCCAGCCGCTC	CGCGTAGCTGTTGGAATGTTTC	GTAACCCGAGATCAATGGTTGGG
2	1436	Thiophene and furan oxidation protein	CAGGGAAACCTTACCATCGGC	ACTCGGCAAGATATATCTATG	ATTCCGAGAAGAAGAGATCG
2	1525	Thiophene and furan oxidation protein	AGCATATCCATGACACCGCCG	CTCCTTTAATCTGCAAAATACGG	GTTGAAGATGTGCTTAGAGTG
2	1558	Hypothetical Protein	ACCGCCAGCCATGAAAGATGAGGC	CGAAAGTCAATCAACGTTTACTG	CTGCCAGTGTGCTGGTGAG
2	2131	Hypothetical Protein	CCCTCCCTTGGAGAGACGACGA	ATACCGATGATGATGCTGAGTG	CCAGAGATTGACCAACAAACAG
2	2809	Hypothetical Protein	CAAAAACACGCCACGCT	GAGCCTTAGATGAGATGG	CGGTTATTCGGTTCAATG
2	3502	Hypothetical Protein	CTTACGGTGTGATCCAGCTCTGCGC	TCAACTCCAAGTCAACACTCAGG	GAGCGGATACCGGAAAGGC
2	3612	Hypothetical Protein	CGCACCGAAGACTTGTGCT	CAATCGTTCGCTTGAAGTG	CGTGGCTGAATTACAACTTTG
2	11500	malT Protein	ACCACCCAGACTGCTTGC	GATCGTTATCGCTATCATCAATGC	AAATGGTGTGCTTTCGTTCCC
2	11638	Maltodextrin phosphorylase	CGGAGATTCCACGGCATCGCT	CTGAGCTGAAAGCAGGAAATGG	AAACCGTATCACTTTGGTAGCC
2	12125	Hypothetical Protein	CACTACGAGACTCTGTGCGCTCTA	ATCCGAACTACTGCTATCTC	CTGCCCTACGACTTTGG



