Supplemental data

2 Table S1. Comparison of clinical data for sources of BLNAS, Low/High-BLNAR, BLPAR, and BLPACR isolates.

		Number Sex		Age (years)		Specimens										
Genotype	Group	of isolates	M	F	≤15	16–64	≥65	Sputum	Pharyngeal mucus	Nasal mucus	Nasal discharge	Otorrhea	Oral cavity	Tonsil	BALF	Other
BLNAS	-	35	25	10	3	14	18	18	6	4	3	1		1		2
BLNAR	II	5	2	3		2	3	4			1					
	III	47	31	16	11	18	18	23	7	5	3	2		2	2	3
	III-like	9	7	2	2	3	4	6	2			1				
	IV*	1		1		1		1								
BLPAR	-	5	5				5	2	1				2			
BLPACRII	III	2		2		1	1	1					1			

^{3 *,} SMHi90. BALF, bronchoalveolar lavage fluid

- 6 Figure S1. Comparison of amino acid substitution of PBP3 and nucleotide
- 7 sequence of ftsI in H. influenzae SMHi90 and representative isolates within group
- 8 III and III-like.
- 9 (A) Amino acid changes (Asp350 to Asn611) and (B) nucleotide changes (nucleotide
- position from 1549 to 1833) of ftsI of SMHi90 compared with Rd, group III (SMHi2),
- and group III-like (SMHi107). SMHi2 and SMHi107 belong to the most common
- 12 PBP3 amino acid substitution type in group III and group III-like, respectively. ^a and ^b
- correspond to amino acids at positions 517 and 526, respectively. The nucleotide
- sequence of ftsI of SMHi90 was registered in DNA Data Bank of Japan (DDBJ) as
- accession number LC379877.
- 16
- 17 Figure S2. Phylogenetic tree of ftsI sequence of H. influenzae isolates.
- Neighbor-Joining dendrogram of the BLNAS (n=11), Low-BLNAR (n=5),
- 19 High-BLNAR (n=57), BLPAR (n=5), and BLPACR isolates (n=2) investigated in this
- 20 study.
- 21

FIG S1

A	385	В	1549-1551 ^a 1576-1578 ^b
typeIII typeIII-like Rd SMHi90	NTTSFKLNGKEIVDVAPRAQQTLDEILINSSNRGVTRLAFRMPPSALMETYQNAGLSKPT NTTSFKLNGKEIVDVAPRAQQTLDEILINSSNRGVTRLAFRMPPSALMETYXNAGLSKPT DTTSFKLSGKEIVDVAPRAQQTLDEILMNSSNRGVSRLALRMPPSALMETYQNAGLSKPT NTTSFKLNGKEIVDVAPRAQQTLDEILINSSNRGVTRLAFRMPPSALMETYQNAGLSKPT	typeIII typeIII-like Rd SMHi90	CGTAAGATTGAAAATGGACATTATGTAAAGAAATATGTGGCATTTACTGCGGGTATT CATAAGATTGAAAATGGACATTATGTAAATAAATATGTGGCATTTTCTGCGGGTATT CGTAAGATTGAAAATGGACATTATGTAAATAAGTATGTGGCATTTACTGCGGGTATT CGTAAATTAGAGAATGGTCATTATGTGATGAATAAACACGTTGCATTTACAGCGGGGATT * *** * * * * * * * * * * * * * * * *
typeIII typeIII-like Rd SMHi90	DLGLIGEQVGILNANRKRWADIERATVAYGYGITATPLQIARAYATLGSFGVYRPLSITK DLGLIGEQVGILNANRXRWADIERATVAYGYGITATPLQIARAYATLGSFGVYRPLSITK DLGLIGEQVGILNANRKRWADIERATVAYGYGITATPLQIARAYATLGSFGVYRPLSITK DLGLIGEQVGILNANRKRWADIERATVAYGYGITATPLQIARAYATLGSFGVYRPLSITK	typeIII typeIII-like Rd SMHi90	GCACCAATTAGTGACCCTCGTTATGCTTTAGTGATTTTAATCAATGATCCAAAAGCAGGC GCACCAATTAGTGACCCTCGTTATGCTTTAGTGATTTTGATCAATGATCCAAAAGCAGGC GCACCAATTAGTGATCCTCGTTATGCATTAGTGGTTTTGATCAATGATCCAAAAGCAGGA GCACCAATTAGTGATCCACGTTATGCCTTAGTCATTTTGATTAACGAGCCAAAAGCTGGG ************** ** ******* ***** ***
typeIII typeIII-like Rd SMHi90	517 526 VDPPVIGKRVFSEKITKDIVGILEKVAIKNKRAMVEGYRVGVKTGTARKIENGHYV-KKY VDPPVIGKRVFSEKITKDIVGILEKVAIKNKRAMVEGYRVGVKTGTAHKIENGHYV-NKY VDPPVIGKRVFSEKITKDIVGILEKVAIKNKRAMVEGYRVGVKTGTARKIENGHYV-NKY VDPPVIGKRVFSEKITKDIVGILEKVAIKNKRVMVEGYRVGVKTGTARKIENGHYV-NKY VDPPVIGKRVFSEKITKDIVGILEKVAIKNKRVMVEGYRVGVKTGTARKLENGHYV-NNKH	typeIII typeIII-like Rd SMHi90	GAATATTATGGTGGTGCGCTTTCTGCCCCTGTATTCTCTAGCATTATGGGTTATGCGTTA GAACATTATGGTGGTGCGGTTTCTGCCCCTGTATTCTCTAGCATTATGGGCTATGCGTTA GAATATTATGGTGGTGCGGTTTCTGCCCCTGTATTCTCTAACATTATGGGCTATGCGTTA GAATATTATGGTGGTGCGGTTTCAGCTCCTGTGTTCTCTAGTATTATGGGGTATGCATTA *** **************** **** **********
typeIII typeIII-like Rd SMHi90	VAFTAGIAPISDPRYALVILINDPKAGEYYGGALSAPVFSSIMGYALRANAIPQDAEAAE VAFSAGIAPISDPRYALVILINDPKAGEHYGGAVSAPVFSSIMGYALRANAIPQDAEAAE VAFTAGIAPISDPRYALVVLINDPKAGEYYGGAVSAPVFSNIMGYALRANAIPQDAEAAE VAFTAGIAPISDPRYALVILINEPKAGEYYGGAVSAPVFSSIMGYALRANGIPQDAEPTE *** *********** *** **** **** ***** ****	typeIII typeIII-like Rd SMHi90	CGTGCAAATGCTATTCCGCAAGATGCTGAAGCAGCTGAAAACACAACAACGAAAAGTGCA CGTGCAAATGCTATTCCGCAAGATGCTGAAGCAGCTGAAAACACAACAACAACGAAAAGTGCA CGTGCAAATGCTATTCCGCAAGATGCTGAAGCAGCTGAAAACACAACAACAACGAAAAGTGCA CGTGCTAACGGAATTCCACAAGATGCGGAACCAACAGAAAAAACAATGAAAAGTGCG ***** ** * ***** *******************
typeIII typeIII-like Rd SMHi90	NTTTKSAKRIVYIGEHKNQKVN NTTTKSAKRIVYIGEHKNQKVN NTTTKSAKRIVYIGEHKNQKVN KTMKS-AKRIVYVGERKNEKMN	typeIII typeIII-like Rd SMHi90	AAACGTATTGTTTATATTGGCGAACACAAGAATCAAAAAGTGAATTAA AAACGTATTGTTTATATTGGCGAACACAAGAATCAAAAAGTGAATTAA AAACGTATTGTTTATATTGGCGAACACAAGAATCAAAAAGTGAATTAA AAACGTATTGTTTATATTGGCGAACACAAGAATCAAAAAGTGAATTAA AAACGCATTGTATATGTTGGTGAGCGTAAGAATGAAAAAATGAATTAA ***** **** *** *** *** * ***** ********

