TABLE S1 Evaluation of the real-time multiplex PCR for the detection of EHEC O104:H4 against the HUSEC collection

					Result of real-time MPCR		
HUSEC no.	**Strain no.**	**Serotype**	***stx***[a]	**ST (CC)**[b]	$\boldsymbol{wzy_{O104}}$	$\boldsymbol{stx_2}$	$\boldsymbol{fliC_{H4}}$
HUSEC001	05-946	O111:H10	2	43 (10)	-	+	-
HUSEC002	5152/97	Ont:H$^-$	2	330 (10)	-	+	-
HUSEC003	6334/96	O157:H7	2	11 (11)	-	+	-
HUSEC004	3072/96	O157:H$^-$	2	11 (11)	-	+	-
HUSEC005	2907/97	O55:H7	2	335 (11)	-	+	-
HUSEC006	5376/99	O157:H$^-$	2	587 (11)	-	+	-
HUSEC007	7382/96	O103:H2	2	17 (20)	-	+	-
HUSEC008	2791/97	O103:H$^-$	2	17 (20)	-	+	-
HUSEC009	6833/96	OR:H2	2	17 (20)	-	+	-
HUSEC010	1805/00	O119:H2	1	20 (20)	-	-	-
HUSEC011	2516/00	O111:H8	1+2	16 (29)	-	+	-
HUSEC012	6037/96	O111:H$^-$	1+2	16 (29)	-	+	-
HUSEC013	2245/98	O26:H11	1	21 (29)	-	-	-
HUSEC014	5080/97	O26:H$^-$	1+2	21 (29)	-	+	-
HUSEC015	126814/98	OR:H11	1+2	21 (29)	-	+	-
HUSEC016	5028/97	Ont:Hnt	1	21 (29)	-	-	-
HUSEC017	3319/99	O26:H11	1+2	27 (29)	-	+	-
HUSEC018	1530/99	O26:H11	2	29 (29)	-	+	-
HUSEC019	1588/98	OR:H11	1	29 (29)	-	-	-
HUSEC020	3271/00	O26:H11	2	396 (29)	-	+	-
HUSEC021	0488/99	O145:H28	2	32 (32)	-	+	-
HUSEC022	4557/99	O145:H$^-$	2	137 (32)	-	+	-
HUSEC023	1169/97/1	O112:H$^-$	$2d_{act}$	40 (40)	-	+	-
HUSEC024	2996/96	O73:H18	$2d_{act}$	69 (69)	-	+	-
HUSEC025	06-05009	O55:Hnt	1	101 (101)	-	-	-
HUSEC026	99-09355	O113:H21	$2d_{act}$	56 (155)	-	+	-
HUSEC027	03-07727	O163:H19	$2d_{act}$	654 (469)	-	+	-
HUSEC028	03-06687	O128:H2	1c+2d	25 (n.a.)	-	+	-
HUSEC029	4256/99	O70:H8	2	39 (n.a.)	-	+	-
HUSEC030	05-03519	O98:H$^-$	1	306 (n.a.)	-	-	-
HUSEC031	7792/96	OR:H$^-$	1	306 (n.a.)	-	-	-
HUSEC032	2441/98	O136:Hnt	1c+2	329 (n.a.)	-	+	-
HUSEC033	4392/97	O145:H25	2	342 (n.a.)	-	+	-
HUSEC034	3332/99	O91:H21	$1+2+2d_{act}$	442 (n.a.)	-	+	-
HUSEC035	1529/98	O121:H19	2	655 (n.a.)	-	+	-
HUSEC036	2839/98	O145:H$^-$	1+2c	659 (n.a.)	-	+	-
HUSEC037	02-03885	O104:H21	$1+2+2d_{act}$	672 (n.a.)	+	+	-
HUSEC038	3356/97B	Ont:H21	$1+2d_{act}$	672 (n.a.)	+	+	-
HUSEC039	3651/96	O76:H19	1c	675 (n.a.)	-	-	-
HUSEC040	220/00	O174:H21	2c	677 (n.a.)	-	+	-
HUSEC041	01-09591	O104:H4	2	678 (n.a.)	+	+	+
HUSEC042	820/08	O165:H25	2+2c	119 (n.a	-	+	-

[a] *stx*$_{2dact}$ designates the allele encoding the mucus-activatable Stx2d (1), whereas *stx*$_{2d}$ is the allele encoding non-activatable Stx2d (2).
[b] ST, sequence type; CC, clonal complex; n.a., CC not assigned.

TABLE S2 Evaluation of the real-time multiplex PCR for the detection of EHEC O104:H4 against a panel of EHEC strains of 120 different serotypes isolated from patients with diarrhea

			Result of real-time MPCR		
Strain	**Serotype**	***stx***[a]	$\mathbf{\mathit{wzy}_{O104}}$	$\mathbf{\mathit{stx}_2}$	$\mathbf{\mathit{fliC}_{H4}}$
06-03488	O1:H10	1	-	-	-
05-06747	O1:HNT	1	-	-	-
05-00826	O2:H6	2	-	+	-
09-02342	O2:H25	2g	-	+	-
4693/97	O3:H2	1	-	-	-
5726/96	O3:H10	1	-	-	-
02-09990	O5:H$^-$	1c+2d	-	+	-
3344/98	O6:HNT	2	-	+	-
3425/98	O6:H$^-$	2	-	+	-
3432/96	O8:H4	2	-	+	+
3615/99	O8:H10	2e	-	+	-
7139/96	O8:H19	1c	-	-	-
3054/97	O8:HNT	2e	-	+	-
3229/98	O8:H$^-$	2e	-	+	-
99-04062	O15:H21	1	-	-	-
01-03364	O17:H18	1+2d$_{act}$	-	+	-
ST106	O17:H45	2	-	+	-
02-00577	O22:H8	1+2d$_{act}$	-	+	-
04-01861-2	O22:H18	2d$_{act}$	-	+	-
ST287	O22:H$^-$	1+2	-	+	-
00-04093	O23:H15	1+2	-	+	-
3757/96	O25:H$^-$	1	-	-	-
3593/00	O26:H11	1	-	-	-
0573/99	O26:H$^-$	1+2	-	+	-
6480/96	O40:H8	2d	-	+	-
3055/97	O41:H$^-$	2	-	+	-
06-02712	O55:HNT	1	-	-	-
225/97	O55:H$^-$	2	-	+	-
0393/98	O62:H$^-$	1	-	-	-
2499/98	O68:H4	1+2	-	+	+
04-01488	O69:H11	1	-	-	-
04-03945	O69:HNT	1	-	-	-
04-07769	O74:H42	1+2	-	+	-
3465/97	O74:H$^-$	1	-	-	+[b]
2030/00	O75:H8	1c+2d	-	+	-
521/99	O76:H19	1c+2d	-	+	-

3654/97	$O78:H^-$	1c	-	-	+ [b]
04-00162	$O80:H^-$	2	-	+	-
24196/97	$O86:H^-$	2d	-	+	-
06-03971	O91:H8	2	-	+	-
05-06323	O91:H10	1	-	-	-
0550/01	O91:H14	1	-	-	-
01-09282	O91:H21	$2+2d_{act}$	-	+	-
01-04459	O91:HNT	1	-	-	-
3937/97	$O91:H^-$	1+2d	-	+	-
04-08825	$O98:H^-$	1	-	-	-
ST126	$O100:H^-$	2	-	+	-
3319/00	O103:H2	1	-	-	-
1246/97	O103:H18	1	-	-	-
02-03885	O104:H21	$1+2+2d_{act}$	+	+	-
06-04191	O106:H18	1	-	-	-
03-01061	O111:H8	1	-	-	-
4556/99	$O111:H^-$	1	-	-	-
17170/98	O112:H2	1c	-	-	-
ST132	O112:H18	1	-	-	-
02-10114	O113:H4	1c+2d	-	+	+
01-02896	O113:H21	2	-	+	-
ST373	$O114:H^-$	2	-	+	-
3159/01	O115:H10	1	-	-	-
04-01073	$O115:H^-$	1+2	-	+	-
04-02494	O118:H16	1	-	-	-
7395/96	$O118:H^-$	2	-	+	-
ST205	O119:H4	1+2	-	+	+
2763/99	O121:H19	2	-	+	-
H.I.8	O128:H2	2f	-	-	-
4736/98	$O128:H^-$	1+2d	-	+	-
06-08409	O138:H8	2	-	+	-
05-09016	$O142:H^-$	1	-	-	-
0917/99	O145:H28	1	-	-	-
02-05558	O146:H8	1c	-	-	-
02-09168	O146:H21	1c+2d	-	+	-
02-07604	O146:H28	2d	-	+	-
99-08365	O146:H31	1c+2d	-	+	-
00-05700	O146:H51	1c	-	-	-
02-00208	$O146:H^-$	1+2d	-	+	-
04-08386	O150:HNT	1+2	-	+	-

06-03233	O152:H^-	1	-	-	-
02-09063	O153:H18	1	-	-	-
04-08828	O153:H25	1+2	-	+	-
00-02970	O154:H20	$2d_{act}$	-	+	-
05-05792	O154:H31	1	-	-	-
05-02092	O154:HNT	1	-	-	-
05-02523	O156:H25	1	-	-	-
4544/99	O157:H7	1+2	-	+	-
2518/00	O157:H^-	2	-	+	-
ST 54	O158:H^-	2	-	+	-
04-05554	O163:H19	2	-	+	-
04-07734	O165:H25	2	-	+	-
98-8419	O165:H^-	2	-	+	-
03-00315	O168:H8	$2d_{act}$	-	+	-
99-00962	O174:H2	$1+2d_{act}$	-	+	-
02-07607	O174:H8	1c+2d	-	+	-
0973/99	O174:H21	$2d_{act}$	-	+	-
02-02016	O174:H^-	1c+2d	-	+	-
02-02690	O175:H16	2	-	+	-
02-04450	O175:H28	$2d_{act}$	-	+	-
4728/00	O176:H^-	1c+2d	-	+	-
06-00660	O177:H^-	2	-	+	-
02-05050	O178:H^-	1c+2d	-	+	-
02-03738	O178:H19	1+2	-	+	-
01-10692	O181:H16	1c+2d	-	+	-
01-02304	O181:H49	1+2c	-	+	-
4941/97	ONT:H2	1c+2d	-	+	-
24059/97	ONT:H10	2e	-	+	-
71/96	ONT:H14	1	-	-	-
06-02738	ONT:H16	1	-	-	-
3759/99	ONT:H18	$1+2d_{act}$	-	+	-
3357/98	ONT:H19	2e	-	+	-
02-12094	ONT:H21	2	-	+	-
04-00309	ONT:H25	1	-	-	-
06-04928	ONT:H28	1+2	-	+	-
520/99	ONT:H32	2d	-	+	-
06-08055	ONT:HNT	2	-	+	-
2771/97	ONT:H^-	2e	-	+	-
11205019	Orough:H2	1c+2d	-	+	-
99-02787	Oraugh:H10	1	-	-	-

5157/96	Orough:H19	2	-	+	-
02-09548	Orough:H21	1+2	-	+	-
4831/97	Orough:H45	2d	-	+	-
1453/97	Orough:H$^-$	1	-	-	-

[a] *stx*$_{2dact}$ designates the allele encoding the mucus-activatable Stx2d (1), whereas *stx*$_{2d}$ is the allele encoding non-activatable Stx2d (2).
[b] Both strains possess *fliC*$_{H4}$ as determined by *fliC* restriction fragment length polymorphism.

Supplemental Reference

1. **Bielaszewska M, Friedrich AW, Aldick T, Schürk-Bulgrin R, Karch H.** 2006. Shiga toxin activatable by intestinal mucus in *Escherichia coli* isolated from humans: predictor for a severe clinical outcome. Clin. Infect. Dis. **43:**1160-1167.

2. **Piérard D, Muyldermans G, Moriau L, Stevens D, Lauwers S.** 1998. Identification of new verocytotoxin type 2 variant B-subunit genes in human and animal *Escherichia coli* isolates. J. Clin. Microbiol. **36:**3317-3322.