



Research Article

Antibiotic Resistance in *Enterococcus faecalis*: Broad-Spectrum Drug Target Identification Using Subtractive Genomics

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Supplementary File S1: *Enterococcus faecalis* strains retrieved from EDGAR 3.5.

S/N	<i>Enterococcus faecalis</i> strain
1	<i>Enterococcus faecalis</i> _62_NC_017312
2	<i>Enterococcus faecalis</i> _ARO1_DG_NZ_CP022488
3	<i>Enterococcus faecalis</i> _ATCC_29212_NZ_CP008816
4	<i>Enterococcus faecalis</i> _D32_NC_018221
5	<i>Enterococcus faecalis</i> _EnGen0107_strain_B594_NZ_CP041738
6	<i>Enterococcus faecalis</i> _R712_NZ_CP036249
7	<i>Enterococcus faecalis</i> _strain_C25_NZ_CP030042
8	<i>Enterococcus faecalis</i> _strain_C54_NZ_CP030045
9	<i>Enterococcus faecalis</i> _strain_CLB21560_NZ_CP019512
10	<i>Enterococcus faecalis</i> _strain_CVM_N48037F_NZ_CP028720
11	<i>Enterococcus faecalis</i> _strain_CVM_N60443F_NZ_CP028724
12	<i>Enterococcus faecalis</i> _strain_ES_1_NZ_CP049775
13	<i>Enterococcus faecalis</i> _strain_FC_NZ_CP028835
14	<i>Enterococcus faecalis</i> _strain_FDAARGOS_324_NZ_CP028285

Table continues on next column.....

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22	<i>Enterococcus faecalis</i> _strain_SCAID_PHRX1_2018_NZ_CP041877
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30	<i>Enterococcus faecalis</i> _str_Symbioflor_1_NC_019770
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32	<i>Enterococcus faecalis</i> _strain_AMB05_NZ_CP015998
33	<i>Enterococcus faecalis</i> _strain_BFFF11_CP045918

Table continues on next page.....

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52	<i>Enterococcus faecalis</i> _strain_VE18395_NZ_CP039549
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Supplementary File S2:

Essential Genes of *Enterococcus faecalis*_OG1RF_NZ_CP025020

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CGCCCATTCGTAGCTTTTTTGCACGGATGT-
TCTAT
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GTC
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GAGTTATCTGAGTATAATCGTTTCTCAAAA
GGGATTTTTAGTTGGGTCGGCTTCAAAA-
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ATTGCTGGAGAAACCTCTTGGTCTTTCTG-
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TTCGAACATTAGTTAATGGTGATCCAACA
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TTAGGAATTATTGGCAAATATATCGG-
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Essential Proteins of *Enterococcus faecalis*_OG1RF_NZ_CP025020

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KVTLTLDTTGPSLFRGYRIEKGGAPLK
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TICIEAALIGHNIAPGFNRSFTCETWDWVDPAI
FEKVRNEAEAKADYDVELDICGSDVD-
GRMIEVARANAEEVGLGDSITFKQLALKDFT-
TEK
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INELGVTVFTKTQVTKLLRKDDQIIGVETELE-
KIYAPCVVLTGGRTYPSTGATGDGYKL
AKKMGH TISPLYPTESPIISEEPFILD-
KTLQGLSLQDVNLTVLNQKGKPLVNHQMDM-
LFT
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VALDVFPKSFEEVLKNVDYMIEEQPNKVAK
NAFHSLIPERLLTFYLEKLAIEEVPA-
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>CVT43_RS12820 2571913 2571116

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MVPLEDPFKKAAELVAIARKRTPLIFVDFH-
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>CVT43_RS11635 2328603 2327470

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>CVT43_RS02970 583866 584648 +

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V Y Y M L N K P K G V V S A V S D A S K K T -
VIDLIAPQDRRPGLYPVGRLDGDTEGLLLTD-
NGQLGY

QLIRPNKEVAKCYEVKVNGLVSAEDCAKFKDG-
IVLQGGIQCKPAKITVLAATETESHVFL
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>CVT43_RS00985 189392 187809 -

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LAPALQSGKIDAIAGMSPTAERKKEIA
FTNPYYESQFVVIVKKDGKYANAKSLKDLADA-
KITAQLNTFHYGLIDQIPNVNKQQAMDN

FSAMRTALASGMIDGYVSERPEGITATSVN-
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DPDIEKVNKILAGISQDERTKIMDQAIKD-
QPAATDSDEQKTGLINDFKNIWNQYQDMFLR
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MVQAMVIFYGLALAFGISLDRTVAAALFIVSVNT-
GAYMSEIVRGGIFAVDKGQFEAAQAIG
MTHGQTMRKVVIPQVLRNLPATGNEFVIN-
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DGPSAYVKVEELTEEGKES

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VMGFGGGYLIKLVKAFSAVPRRKANK
FFTVGQAQFAGANAFHGAQDQGKFMG-
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VMSKLFIAIF

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-
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PEK
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RRITRDGEPPIRSFFARMFYKLINRIAETEMVD-
GARDFRVMTRQMVDAILLESEYNRFSK
GIFSWVGFKTEYIEFKNRERIAGETSWSFWSLL-
SYSIDGIVNFSETPLNIASYVGAFSCI
GSALAMLVIIIFRTLNVNGDPTSGWPSMVCIV-
LFVGGLQLLCLGHIIGKYIGKIFLETKKRPI
YIVKESEKDSKK

Supplementary File S3: *Druggability characteristics of the Enterobacter faecalis essential proteins.*

<i>Enterococcus faecalis</i> OG1RF NZ CP025020 Protein Sequence ID	Length (amino acids)	Hydropho- bicity	Signal motifs	PEST motifs	N-Glycosylation sites*	O-Glycosyla- tion sites	Isoelectric point
CVT43_RS04985	387	-0.308	None	None	1	13	5.92
CVT43_RS06400	428	-0.088	None	None	5	26	5.99
CVT43_RS12820	265	-0.146	None	None	1	7	6.52
CVT43_RS03355	368	-0.132	None	None	2	26	5.56
CVT43_RS11635	377	-0.133	None	None	2	11	5.25
CVT43_RS11155	316	-0.372	None	None	0	13	7.05
CVT43_RS02970	260	-0.327	None	None	2	7	9.62
CVT43_RS00985	527	0.066	Present	Present	4	28	5.88
CVT43_RS09850	344	0.893	None	None	4	25	9.68
CVT43_RS11640	312	0.018	None	None	1	16	5.38

Where; *Sequence without signal motifs may not undergo N-glycosylation. A PEST motif is a peptide sequence that is rich in proline (P), glutamic acid (E), serine (S) and threonine (T).