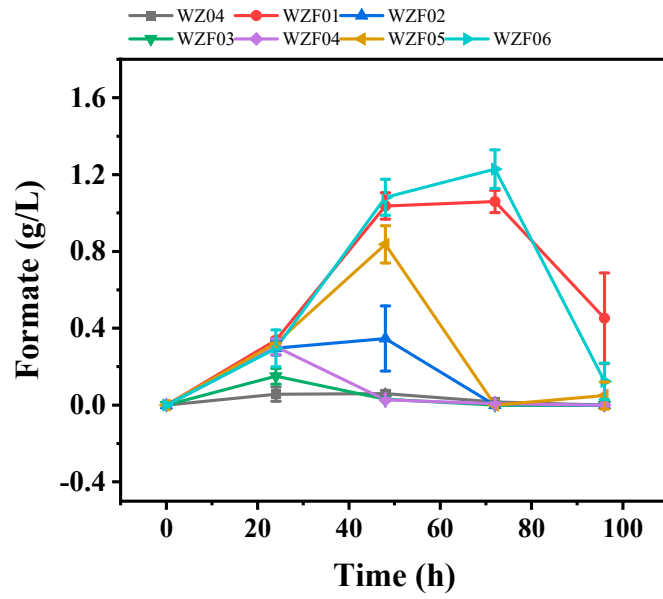
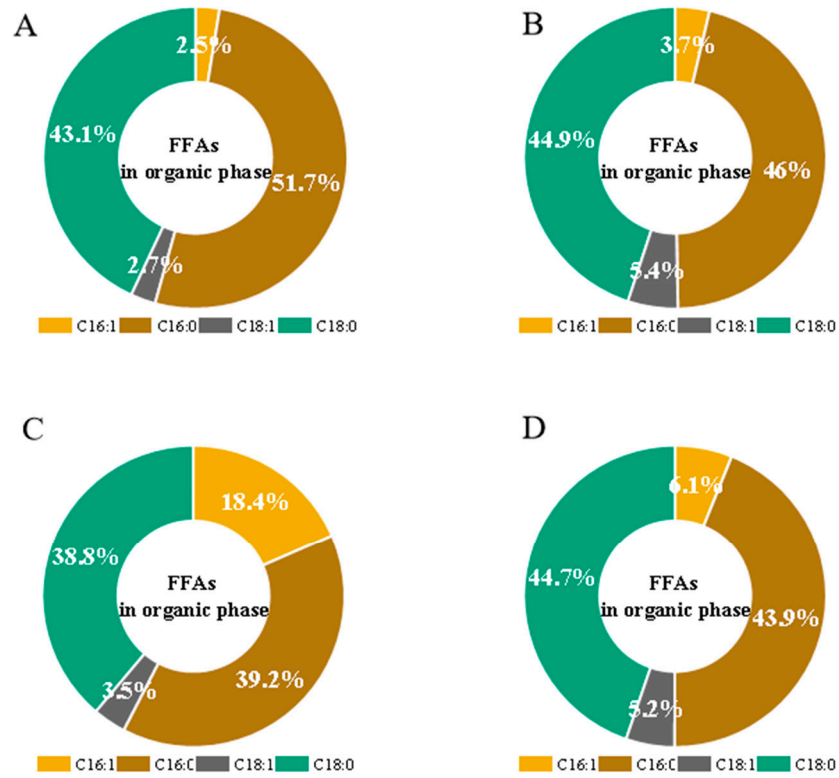


**Fig. S1** Glucose consumption in the context of FDH expression's impact on strain metabolism with the addition of formate. The culture medium was MM medium, supplemented with 20 g/L glucose, 5 g/L formate, and 10 g/L acetate. The fermentation process spanned 96 hours. All data were presented as the mean  $\pm$  s.d., with error bars denoting standard error (n=3).



**Fig. S2** Formate production in the context of FDH expression's impact on strain metabolism without exogenous formate addition. The culture medium was MM medium, supplemented with 20 g/L glucose, 5 g/L formate, and 10 g/L acetate. The fermentation process spanned 96 hours. All data were presented as the mean  $\pm$  s.d., with error bars denoting standard error (n=3).



**Fig. S3** . The proportion of FFAs in the organic phase. ABCD conditions were consistent with Figure 5 in the main text. All data were presented as the mean  $\pm$  s.d., with error bars denoting standard error (n=3).

**Table S1.** Plasmids used in this study<sup>a</sup>

Plasmids	Genotype or characteristic	Resource
<b>pSP-GM2</b>	2 $\mu$ m, AmpR, <i>URA3</i> , TEF1p, CYC1t, PGK1p, ADH1t	Laboratory preservation
<b>pIY-C04</b>	2-micron, AmpR, HIS3, TEF1p, ADHt, PGK1p, CYCt	Laboratory preservation
<b>pFDH3</b>	pSP-GM2-(TEF1p- <b>FDH3</b> -CYC1t)	Laboratory preservation
<b>pFDH4</b>	pSP-GM2-(TEF1p- <b>FDH4</b> -CYC1t)	Laboratory preservation
<b>pFDH5</b>	pSP-GM2-(TEF1p- <b>FDH5</b> -CYC1t)	Laboratory preservation
<b>pFDH34</b>	pSP-GM2-(TEF1p- <b>FDH3</b> -CYC1t)- (PGK1p- <b>FDH4</b> -ADH1t)	Laboratory preservation
<b>pFDH45</b>	pSP-GM2-(TEF1p- <b>FDH4</b> -CYC1t)- (PGK1p- <b>FDH5</b> -ADH1t)	Laboratory preservation
<b>pFDH345</b>	pSP-GM2-(TEF1p- <b>FDH5</b> -CYC1t)- (PGK1p- <b>FDH4</b> -ADH1t)- (PGI1p- <b>FDH3</b> -PYK1t)	Laboratory preservation
<b>pScACS1</b>	pIY-C04-(TEF1p- <b>ScACS1</b> -ADH1t )	This study
<b>pScACS2</b>	pIY-C04-(TEF1p- <b>ScACS2</b> -ADH1t )	This study
<b>pYIACS1</b>	pIY-C04-(TEF1p- <b>YIACS1</b> -ADH1t )	This study
<b>PYIACS2</b>	pIY-C04-(TEF1p- <b>YIACS2</b> -ADH1t )	This study
<b>pSeACSL<sup>641D</sup></b>	pIY-C04-(TEF1p- <b>SeACSL<sup>641D</sup></b> -ADH1t )	This study

<sup>a</sup> The bold text in the table indicates the name of the overexpressed gene.

**Table S2.** *S. cerevisiae* strains used in this study

Strain	Genotype or characteristic	Resource
YJZ08	<i>MATa MAL2-8c SUC2 his3Δ1 ura3-52 hfd1Δ pox1Δ faa1Δ faa4Δ</i>	[1]
WZ01	YJZ08 with pScACS1	This study
WZ02	YJZ08 with pScACS2	This study
WZ03	YJZ08 with pYIACS1	This study
WZ04	YJZ08 with pYIACS2	This study
WZ05	YJZ08 with pScACS <sup>L641D</sup>	This study
WZF01	WZ04 with pFDH3	This study
WZF02	WZ04 with pFDH34	This study
WZF03	WZ04 with pFDH345	This study
WZF04	WZ04 with pFDH4	This study
WZF05	WZ04 with pFDH5	This study
WZF06	WZ04 with pFDH45	This study

**Table S3.** Primers used in this study

Primer No.	Name	Sequence (5'-3')
P1	SCACS1-F	AAGCGGCCGCATGACAATCAAGGAACATAAAGTAGT
P2	SCACS1-R	GTCAACAACGTTTATTTCTTTTTTGAGAGAAAAATTGGTTC
P3	SCACS2-F	AAGCGGCCGCATGTCGCCCTCTGCCGTA
P4	SCACS2-R	TGTCAACAACGTTTACAACCTTGACCGAATCAATTAGATGTCT
P5	YLACS1-F	ACAAGCGGCCGCATGGAGTATTATTGTGGGGTAAACCAGGT
P6	YLACS1-R	AGAATTGTTAATTAATTAGAGCTTGGAAGAGCTGCC
P7	YLACS2-F	TACAAGCGGCCGCATGACAGTCAACTCCACTTTTAGATCG
P8	YLACS2-R	AATTGTTAATTAACTACTGTTCAACCAGATCAGGATACAG
P9	SEACS <sup>L641D</sup> -F	CAAGCGGCCGCATGTCTCAGACGCATAAGCACG
P10	SEACS <sup>L641D</sup> -R	GTCAACAACGTTTAAGATGGCATAGCAATAGCCTG

**Table S4. The exogenous genes used in this study.**

Synthesized genes	Sequence (5'-3')
<b>ScACS1</b>	ATGACAATCAAGGAACATAAAGTAGTTTATGAAGCTCACAAACGTAAAGGCTCTTAAGGC TCCTCAACATTTTACAACAGCCAACCCGGCAAGGGTTACGTTACTGATATGCAACATTA TCAAGAAATGTATCAACAATCTATCAATGAGCCAGAAAAATTCTTTGATAAGATGGCTAA GGAATACTTGCATTGGGATGCTCCATACACCAAAGTTCAATCTGGTTCATTGAACAATGG TGATGTTGCATGGTTTTTGAACGGTAAATTGAATGCATCATACAATTGTGTTGACAGACA TGCCTTTGCTAATCCCGACAAGCCAGCTTTGATCTATGAAGCTGATGACGAATCCGACAA CAAAATCATCACATTGGTGAATTACTCAGAAAAGTTTCCCAAATCGTGCGTGTCTTAA AAGCTGGGGCGTTAAGAAAGGTGACACAGTGGCTATCTATTTGCCAATGATTCCAGAAG CGGTCATTGCTATGTTGGCTGTGGCTCGTATTGGTGCTATTCACTCTGTTGTCTTTGCTGG GTTCTCCGCTGGTTCGTTGAAAGATCGTGCTGTTGACGCTAATTCTAAAGTGGTCACTACT TGTGATGAAGGTAAAGAGGTGGTAAGACCATCAACACTAAAAAAATTGTTGACGAAGG TTTGAACGGAGTCGATTGGTTTCCCGTATCTTGGTTTTCCAAAGAACTGGTACTGAAGGT ATTCCAATGAAGGCCGGTAGAGATTACTGGTGGCATGAGGAGGCCGTAAGCAGAGAAC TTACCTACCTCCTGTTTCATGTGACGCTGAAGATCCTCTATTTTTATTATACACTTCCGGTT CCACTGGTTCTCAAAGGGTGTCTGTTCACTACAGGTGGTTATTTATTAGGTGCCGCTT AACAACTAGATACGTTTTTGTATTTACCCAGAAGATGTTCTTCACTGCCGGTGACGT CGGCTGGATCACGGTCAACCTATGCTCTATATGGTCCATTAACCTTGGGTACCGCCTC AATAATTTTGAATCCACTCCTGCCTACCCAGATTATGGTAGATATTGGAGAATTATCCA ACGTCACAAGGCTACCCATTTCTATGTGGCTCCAACTGCTTTAAGATTAATCAAACGTGT AGGTGAAGCCGAAATTGCCAAATATGACACTTCCTCATTACGTGCTTGGGTTCCGTCGG TGAACCAATCTCTCCAGACTTATGGGAATGGTATCATGAAAAAGTGGGTAACAAAAACT GTGTCATTTGTGACACTATGTGGCAAACAGAGTCTGGTTCTCATTTAATTGCTCCTTTGGC AGGTGCTGTCCCAACAAAACCTGGTTCTGCTACCGTGCCATTCTTTGGTATTAACGCTTGT ATCATTGACCCTGTTACAGGTGTGGAATTAGAAGGTAATGATGTGCAAGGTGTCCTTGCC GTTAAATCACCATGGCCATCAATGGCTAGATCTGTTTGAACCAACACGACCGTTACATG GATACTTACTTGAAACCTTATCCTGGTCACTATTTACAGGTGATGGTGCTGGTAGAGAT CATGATGGTTACTACTGGATCAGGGGTAGAGTTGACGACGTTGTAAATGTTCCGGTCAT AGATTATCCACATCAGAAATTGAAGCATCTATCTCAAATCACGAAAACGTCTCGGAAGCT GCTGTTGTCGGTATTCCAGATGAATTGACCGGTCAAACCGTCGTTGCATATGTTCCCTAA AAGATGGTTATCTACAAAACAACGCTACTGAAGGTGATGCAGAACACATCACACCAGAT AATTTACGTAGAGAATTGATCTTACAAGTTAGGGGTGAGATTGGTCCTTTGCGCTACCA AAAACCATTATTCTAGTTAGAGATCTACCAAGAACAAGGTCAGGAAAGATTATGAGAAG AGTTCTAAGAAAGGTTGCTTCTAACGAAGCCGAACGCTAGGTGACCTAACTACTTTGGC CAACCCAGAAGTTGTACCTGCCATCATTCTGCTGTAGAGAACCAATTTTCTCTCAAAA AAAGAAATAA
<b>ScACS2</b>	ATGTCGCCCTCTGCCGTACAATCATCAAACTAGAGAAGACAGTCAAGTGAAATTGACAA GTTGAAAGCAAAAATGTCCAGTCTGCCGCCACTGCGCAGCAGAGAAGGAACATGAGT ATGAACATTTGACTTCGGTCAAGATCGTGCCACAACGGCCCATCTCAGATAGACTGCAGC CCGCAATTGCTACCCACTATTCTCCACACTTGGACGGGTTGCAGGACTATCAGCGCTTGC ACAAGGAGTCTATTGAAGACCTTGCTAAGTTCTTCGGTTCTAAAGCTACCCAATTTTAA ACTGGTCTAAGCCATTCGATAAGGTGTTTCATCCCAGACCCTAAAACGGGCAGGCCCTCT

	<p> TCCAGAACAAATGCATGGTTCCTCAACGGCCAATTAACGCCTGTTACAACGTGTTGACA  GACATGCCTTGAAGACTCCTAACAAAGAAAGCCATTATTTTCGAAGGTGACGAGCCTGGCC  AAGGCTATTCCATTACCTACAAGGAACTACTTGAAGAAGTTTGTCAAGTGGCACAAGTGC  TGACTTACTCTATGGGCGTTCGCAAGGGCGATACTGTTGCCGTGTACATGCCTATGGTCC  CAGAAGCAATCATAACCTTGTGGCCATTTCCTGATCGGTGCCATTCACTCCGTAGTCTT  TGCCGGGTTTTCTTCCAACCTCTTGAGAGATCGTATCAACGATGGGGACTCTAAAGTTGT  CATCACTACAGATGAATCCAACAGAGGTGGTAAAGTCATTGAGACTAAAAGAATTGTTG  ATGACGCGCTAAGAGAGACCCAGGCGTGAGACACGTCTTGGTTTATAGAAAGACCAAC  AATCCATCTGTTGCTTTCCATGCCCCCAGAGATTTGGATTGGGCAACAGAAAAGAAGAAA  TACAAGACCTACTATCCATGCACACCCGTTGATTCTGAGGATCCATTATTCTGTTGTATA  CGTCTGGTTCTACTGGTGCCCCAAGGGTGTCAACATTCTACCGCAGGTTACTTGCTGG  GAGCTTTGTTGACCATGCGCTACACTTTTGACACTCACCAAGAAGACGTTTTCTTCACAG  CTGGAGACATTGGCTGGATTACAGGCCACACTTATGTGGTTTATGGTCCCTTACTATATG  GTTGTGCCACTTTGGTCTTTGAAGGGACTCCTGCGTACCCAAATTACTCCCGTTATTGGGA  TATTATTGATGAACACAAAGTCACCCAATTTTATGTTGCGCCAACGTCTTGCGTTTGTG  AAAAGAGCTGGTGATTCCCTACATCGAAAATCATTCCTTAAAATCTTTGCGTTGCTTGGGT  TCGGTCGGTGAGCCAATTGTGCTGAAGTTTGGGAGTGGTACTCTGAAAAATAGGTAA  AAATGAAATCCCCATTGTAGACACCTACTGGCAAACAGAATCTGGTTCGCATCTGGTCAC  CCCCTGGCTGGTGGTGTACACCAATGAAACCGGGTCTGCCTCATTCCCCTCTTCGGT  ATTGATGCAGTTGTTCTTGACCCTAACACTGGTGAAGAACTTAACACCAGCCACGACAG  GGTGTCTTGGCGTCAAAGCTGCATGGCCATCATTGCAAGAACTATTGGAAAAATCAT  GATAGGTATCTAGACACTTATTTGAACCTTACCCTGGCTACTATTTCACTGGTGATGGTG  CTGCAAAGGATAAGGATGGTTATATCTGGATTTTGGGTCGTGTAGACGATGTGGTGAACG  TCTCTGGTCACCGTCTGTCTACCGCTGAAATTGAGGCTGCTATTATCGAAGATCCAATTGT  GGCCGAGTGTGCTGTTGTGCGATTCAACGATGACTTGACTGGTCAAGCAGTTGCTGCATT  TGTGGTGTGAAAAACAAATCTAGTTGGTCCACCGCAACAGATGATGAATTACAAGATAT  CAAGAAGCATTGGTCTTTACTGTTAGAAAAGACATCGGGCCATTGCGGCACCAAAATT  GATCATTTTAGTGATGACTTGCCCAAGACAAGATCCGGCAAAATTATGAGACGTATTTT  AAGAAAAATCCTAGCAGGAGAAAGTGACCAACTAGGCGACGTTTCTACATTGTCAAACC  CTGGCATTGTTAGACATCTAATTGATTTCGGTCAAGTTGTAA </p>
YIACS1	<p> ATGGAGTATTATTGTGGGGTAAACCAGGTGGCAGGTGGCAGGTGGCAGGTGGCAGGTGT  GGCAGGTGGTGGCACGATGGGGGCTGGTGGTGGTACGAAGGTGGCAGCAAAGTCACACC  GAGCCCTACGCCTCCTCAAACCAACCACCATGTGACTCAACAGCCTCTGACATGGCCC  ACACACCAGCCAGCGCTACTCAGAACCGGAGCGGGATCCAACGTCCACTCTCTCTTCG  ACAATGGGGCCTGGTCTGCCGATAGCGCTTCCGTTGTACCTGCACAAGAGATGCAAAA  AACTGCACACTCCATACTAACCATTTAGTGACTACTGTTTCCTTAGCAACACTGACGC  CATTCTCAAGGGTGTGAGATCCGGGTAACATCCCGCCAACGCCCAGCACATCTTCTC  CAAGGAGGCTCTGGCTTTATCGCCACCCTGCACCGAACCTTCGATGCCCCGACGACGAC  GCTCCTTGCTGCTCGAGTCGCTCGACAGGCCCGAATCGATGCCGGCGAGTTCCCCGACTT  CCTCCCCGAGACCAAGAACATCCGAGATGACCCCACTTGGCAGGGTGCCCCCCCCGCCCC  CGGTCTGGTTGATCGACGAGTCGAGATCACCGGCCCACTGACCGAAAGATGGTCATCA  ACGCCCTGAACTCCGACGTCTGGACCTACATGGCTGACTTTGAGGACTCCTCTGCCCCCA  CCTGGTCCAACATGGTCGATGGTCAGGTCAACCTCTACGACGGTGTCCGACGAACCATCA  CCTTCCAGGCCCCCGGTGGAAAGTCTTACAAGCTCCGATCCGACAAGGAGAAGCTCCCC </p>



	<p> ACCTTATCGTCCGACCTCGAGGCTGGCACCTTGATGAGACCCACTTCCTTGTTGATGGC  AAGCCCATCTCCGGTGGTCTCTTTGATTTCCGGTCTGTACTTCTTCAACAACGCCAAGGAGT  CCGTTGCTCGAGGCGCTGGCCCTTACTTCTACCTCCCAAGATGGAGTCCCACCTTGAGG  CCGACTCTGGAACGACGTCTTCAAGCTCTCTCAGGACTGGATCGGCATGCCCCGAGGAA  CCATCCGAGGTACCGTTCTGATCGAGACCATTCTCGCCGCCTTTGAGATGGACGAGATCA  TCTACGAGCTCCGAGAGCACTCCTCTGGTCTCAACTGTGGCCGATGGGATTACATCTTCT  CCTTCATCAAGAAGTTCAAGAACCATCCCGAGTTTGTCTCCCCGACCGAGGTGACGTTA  CCATGACCGTCCCTTACATGTCTGCTTACGTCAAGCTCCTCATCCAGACCTGCCACAAGC  GAGGCGTCCACGCCATGGGCGGTATGGCTGCTCAGATCCCCATCAAGAACGATGCTGCT  GCCAACAAGGTTGCCATGGAGGGTGTCTACAAGGACAAGCTCCGAGAGGTGACCGCCGG  CCACGACGGTACCTGGGTTGCTACCCCCAGTTGCCATCATCGCCTCCGAGGTTTTCAA  CAAGCACATGCCCACCTCCTAACCAGATCTACCGACGACGAGAGGATGTCCACATCACCG  CTCGAGACCTCATCAACCTTACATTGAGGGCGGCAAGATCACCGAGGAGGGTATCCGA  AAGAACCTGTTTCATCGGTCTTGGCTACATGGAGGCCCTGGCTCCGTGGTCTTGGTTGTGTC  CCCATCAACTACTTGATGGAGGATGCTGCCACCGCTGAGGTGTCTCGATCTCAGTCCAC  CAGTGGGTCAAGCACGGTGTACCACCGCCGAAGGCAAGAAGGTCACCAAGGACTACGC  CGTCAAGCTTCTCAACGAGGAGACCGACAAGCTCATCAAGAACTCAAGCCCGCAACA  AGTTTGCTGAGGCCGCCGCTTACTTCAAGCCCGAGATTGTTGGCGACAAGTACTCCGACT  TCCTCACCACTCTCCTTTACGACCAGATCACCTCCGTTGGCAGCTCTTCCAAGCTCTAA </p>
YIACS2	<p> ATGACAGTCAACTCCACTTTTAGATCGGCATCAACTTCCCCGAAACTGGGCAAAACCAGC  CAGGCAGACATCCTGAGCCCCGAGGCCCAAAAGTTCTGGTTGAACTCCACAGCAACTTC  AACCAGCGACGTCTGGAGCTCCTTGATCTGCGTCAGAAGAACCAGCTCAAGCTCGATGC  AGGCGAAATCCCCACGTATCCACGGAAACAGCAGACATCCGAGCAGACAAGTCGTGGA  CAGGTCCATCTCTGGTCCCGGTCTCCATGACCGACGGGTGAAATCACTGGCCCCCAG  ACCGAAAGATGATCATCAACGCCCTCAACACAAACGTCGCCACCTACATGTCCGATTTCG  AGGACTCCCAAGCCCCACCTGGGACAACGTCTCGATGGGCAAGTCAACCTGTACGAT  GCCATCCGAAACCAGGTTGATTTCGACACAGAGAAGAAACCTACAAGCTGACTACAAA  GAAGTGGACCGAGGGGACCTACTTAGAGGCTCCACGGACACTCGACCCACTTTTTGGT  GCGCCCTAGAGGCTGGCACATGCTCGAAAGCCATGTTTCAGATCGATGGACAGAGCATGT  CTGGGTCTCTGTTGACTTTGGACTCTTCTTCTTCAACAACGCCAAGGCTCTGATTGAGGC  TGGCCGAGGCCCTTACTTTTACCTCCCCAAGATGGAGCATTATCTCGAGGCTCGACTCTG  GAATGATGTCTTTGTTTTCTCTCAAACTACTGCGGAATCCCCAGGGCACCATTGAGC  TACTTGTCTGATTGAGACTCTTCTGACGCTCTGCACATGGAGGAGATCATCTACGAGCT  GCGAGATCACTCTGCCGGCCTCAACTGTGGTCGATGGGACTACATGTTCTCAGTTATCAA  GCGGTTCCGAAACCAGCCCAGAAAGCTGCTTCTGACCGAAAGATGATCACCATGACCG  TTCCCTTCATGAACGCTTACGTGACTCGTCTGGTTACGTGTGTCAAAACGAAAGGTGC  ATGCCATGGGAGGTATGGCTGCCATATTCTCTCAAGGATGCTGCGGAGAACGCCCTTG  CCATGGAGAAGGTCAAGGCTGACAAACAGAGAGGCCTCTGCAGGCTGTGACGGTACC  TGGATCGCTCATCCCGTTTGGCTGAGACTGCCACCAAGGAGTTTGACGAGTTGATGCCA  GGGGAAAACCAATTTGATTTCGTGCGAGAGGACGTTCCCTCCGAGAAGCTGTTGGATACT  ACCATTGAAGGCTTTGCCATACCAAGGAGGGTCTTCAGGAGAATGTCTACATTGGTCTG  CGCTACATGGAGGCATGGCTGCGAGGGTTGGGATGTGTGCCCATCAACAACCTCATGGA  GGATGCTGCTACTGCCGAGGTTTCTCGTGCCAGCTGTGGCAGTGACCAAGCACGGCAA  GTTACCAAGGAGGAGGTATTGGAGATGATTTCAGGAGGCCGAGAAGCTGGGAAACA </p>

	CCGACTCTGTCAAGCGAGCAGGCGAGTTGCTGGGATCTGAGATTGGCGGCGATTTTGCAG AGTTCCTCACCGATCTGCTGTATCCTGATCTGGTTGAACAGTAG
SeACS <sup>L641D</sup>	ATGTCTCAGACGCATAAGCACGCCATTCCAGCAAACATAGCCGACAGATGTTTAATAAAT CCAGAACAATACGAGACTAAGTACAAGCAGTCAATTAATGACCCAGACACCTTTTGGGG CGAACAAGGTAAAAATTTAGACTGGATCACACCCTACCAAAAAGTCAAGAACACATCAT TTGCACCTGGTAATGTCTCCATAAAGTGGTACGAGGATGGAACTTTGAACCTAGCAGCGA ACTGTTTGGACAGGCACTTGCAGGAGAACGGAGATAGGACGGCTATTATTTGGGAGGGT GACGATGCTTCACAAAGTAAGCATATTTCTTACAGAGAATTACACAGAGATGTTTGTCTG TTGCTAATACACTGTTAGATCTTGGCATCAAGAAAGGAGATGTTGTTGCGATCTACATG CCCATGGTTCCCGAGGCTGCTGTGGCTATGTTAGCATGCGCTCGTATTGGTGCCGTACAC TCTGTCATCTTTGGCGGATTTTACCAGGAGGCAATTGCAGGGAGAATAATCGACAGTAGT AGCAGATTGGTTATCACTGCTGATGAAGGCGTAAGAGCCGGGAGGTCAATTCCTTGAA AAAAAATGTCGACGACGCTCTTAAAAATCCCAATGTACGCTGTGCGAACACGTCATTGT CCTGAAAAGGACTGGAAATGATATAGATTGGCAAGAAGGTAGAGACCTATGGTGGAGAG ACTTAATCGAAAAAGCCAGTCCCGAGCATCAGCCAGAAGCAATGAACGCGGAAGATCCA CTATTCATTCTATACACCTCAGGCTCAACTGGCAAGCCCAAGGGTGTATTGCATACAAC GGTGGATACTTGGTCTACGCCGCTACTACTTTCAAATACGTATTGATTACCATCCGGGT GATATATATTGGTGCACCGCTGATGTGCGATGGGTTACGGGGCATTACACTTGTCTTAC GGCCCACTTGCTGTGGAGCTACTACTTTATGTTTGAAGGGGTCCCAAACTGGCCAACA CCCACAAGGATGTGCCAAGTCGTTGATAAACATCAAGTAAACATACTTTATACCGCACCC ACTGCTATCAGAGCCCTGATGGCCGAAGGGGATAAAGCGATTGAAGGTAAGTATAGAA TTCTTTGAGAATATTGGGTAGCGTTGGGGAACCAATCAATCCGGAGGCTTGGGAGTGGTA TTGGAAGAAGATTGGTAAAGAGAAATGTCCAGTGGTAGACACCTGGTGGCAGACAGAAA CAGGTGGTTTTATGATTACACCATACCTGGGGCAATAGAATTGAAAGCAGGAAGTGCTA CACGTCCCTTTTTTGGGGTGCAACCGCCTTAGTCGATAACGAAGGGCACCCGAAGAAG GTGCAACAGAAGGTAATTTGGTCATAACAGATAGCTGGCCAGGACAAGCGAGAACATTG TTTGGCGATCATGAACGTTTCGAACAGACATATTTTAGTACTTTCAAAAACATGTATTTTA GCGGCGATGGCGCTAGAAGGGATGAAGACGGTTATTATTGGATTACTGGTAGGGTGGAT GACGTGTTGAATGTCTCCGGACACAGATTAGGTACAGCTGAAATTGAAAGCGCGTTGGTC GCACATCCTAAGATTGCAGAGGCAGCTGTCGTAGGCATTCTCATGCAATTAAGGGACA AGCTATTTATGCTTACGTTACACTAAATCATGGTGAAGAACCAAGTCCTGAGTTATACGC AGAGGTGAGAACTGGGTGAGAAAGGAAATTGGTCCCTTAGCTACTCCGGACGTACTAC ATTGGACGGAATCTCTACCTAAAACGAGGAGTGGCAAGATAATGAGAAGGATTTAAGA AAGATAGCCGCAGGAGATACGTCTAATTTGGGTGATACCAGCACCTTAGCTGACCCAGG GGTCGTGAAAAACCTTTGGAAGAAAAACAGGCTATTGCTATGCCATCTTAA

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