

ПРИЛОЖЕНИЕ 1

А. Номера использованных в работе образцов солеросов, их происхождение, идентификаторы GenBank для последовательностей nrETS и пластов, средняя глубина покрытия чтениями. Звездочкой отмечены образцы, последовательности для которых получены нами

Номер	Происхождение образца	ETS	пластом	средняя глубина покрытия чтениями; ETS/пластом
<i>Salicornia sp.</i>				
1	<i>S.europaea</i> (?), GenBank SRR24425728	см. приложение 1Б	NC_027225	
2		см. приложение 1Б		
<i>Salicornia bigelovii</i> Torr:				
	GenBank SRR28511430	см. приложение 1Б	NC_027226	
	<i>S.europaea (bigelovii?)</i> , GenBank SRR19078398	см. приложение 1Б	OL449699	
chen 1342	Нижняя Калифорния, <i>A. Juan s.n.</i> (MJG)	KM984699		
<i>Salicornia brachiata</i> Roxb				
1	ESLWMC4, Sri Lanka, <i>Kalmi Siridewa</i>	PQ621804		
2	ESLKr1, Sri Lanka	OR838461		
3	GenBank SRR14624534	см. приложение 1Б	NC_027224	
<i>Salicornia europaea</i> L.				
	<i>S. europaea</i> subsp. <i>europaea</i>	JX257104		
	<i>S. aff_europaea</i>	JX257071		
1	<i>S.ramosissima</i> , GenBank ERR10116824	см. приложение 1Б	NC_066032	
<i>Salicornia fruticosa</i> (L.) L.				
1	GenBank ERR10116823	см. приложение 1Б	NC_066030	
2	H. Akhani 18126 (Hb. Akhani)	MW679200		
3	Venice province, North Lagoon, <i>A. Sfriso</i>	OM333826		
<i>Salicornia perennans</i> Willd. subsp. <i>perennans</i>:				
chen 322	Западно-Казахстанская область, <i>H. Freitag 28.130b</i> (KAS)	EF433677		
chen 323	Западно-Казахстанская область, <i>H. Freitag 28.130a</i> (KAS)	EF433676		

chen 480	Ростовская обл., <i>С. Панкова (Безр) 3</i> (MW)	EF433681		
chen 481	Ростовская обл., <i>С. Панкова (Безр) 4</i> (MW)	EF433682		
chen 484	Архангельская обл., <i>С. Панкова (Безр) 7</i> (MW)	EF433648		
chen 720	Ростовская обл., <i>С. Безр и О. Демина 9.1</i> (MW)	EF433689		
*chen 1193	Полуостров Киндо, Белое море, 66.553° с.ш., 33.104° в.д., 20.07.2006, <i>С. Безр s.n.</i> (MW)	KJ000570		
*chen 1195	Полуостров Киндо, Белое море, 66.553° с.ш., 33.104° в.д., 20.07.2006, <i>С. Безр s.n.</i> (MW)	KJ000571	PV798577	119/93,3
*chen 1197	Полуостров Киндо, Белое море, 66.551° с.ш., 33.048° в.д., 20.07.2006, <i>С. Безр s.n.</i> (MW)	KJ000572	PV798579	55,5/61,2
*chen 1211	Ивановка, 46.241° с.ш., 33.918° в.д., 20.08.2006, <i>С. Безр и А. Безр 15</i> (MW)	KJ000573	PV798581	106/37,4
*chen 1225	Пролетарск, 46.686° с.ш., 41.728° в.д., 09.2006, <i>С. Безр и О. Демина s.n.</i> (MW)	KJ000574		
*chen 1226	Пролетарск, 46.686° с.ш., 41.728° в.д., 09.2006, <i>С. Безр и О. Демина s.n.</i> (MW)	KJ000575	PV798575	1560/498
<i>Salicornia persica</i> Akhani subsp. <i>iranica</i> (Akhani) G. Kadereit & Piirainen:				
chen 999		EF433645		
<i>Salicornia iranica</i> subsp. <i>sinus-persica</i> (Akhani) Chatren. & Akhani:				
		MW679260		
<i>Salicornia procumbens</i> subsp. <i>heterantha</i> (S.S. Beer & Demina) G. Kadereit & Piirainen:				
chen 719	Ростовская обл., <i>С. Панкова и О. Демина 8.1</i> (MW)	EF433653		
*chen 1213	Ивановка, 46.241° с.ш., 33.918° в.д., 22.08.2006, <i>С. Безр и А. Безр 17.1</i> (MW)	KJ000567	PV798582	1020/199
*chen 1214	Ивановка, 46.241° с.ш., 33.918° в.д., 22.8.2006, <i>С. Безр и А. Безр 17.2</i> (MW)	KJ000568	PV798583	123/22
*chen 1219	Пролетарск, 46.686° с.ш., 41.728° в.д., 09.2006, <i>С. Безр и О. Демина s.n.</i> (MW)	KJ000569	PV798584	1320/331
*iso1	Пролетарск, 46.686° с.ш., 41.728° в.д., 09.2006, <i>С. Безр и О. Демина s.n.</i> (MW)	KJ000565		
*iso2	Пролетарск, 46.686° с.ш., 41.728° в.д., 09.2006, <i>С. Безр и О. Демина s.n.</i> (MW)	KJ000566		
<i>Salicornia procumbens</i> subsp. <i>rojarkovae</i> (Semenova) G. Kadereit & Piirainen:				
chen 478	Карелия, <i>С. Панкова 1</i> (MW)	EF433707		

chen 479	Карелия, <i>С. Панкова 2</i> (MW)	EF433708		
*chen 1191	Полуостров Киндо, Белое море, 66.553° с.ш., 33.104° в.д., 20.07.2006, <i>С. Бээр s.n.</i> (MW)	KJ000576		
*chen 1194	Полуостров Киндо, Белое море, 66.553° с.ш., 33.104° в.д., 20.07.2006, <i>С. Бээр s.n.</i> (MW)	KJ000577	PV798576	297/140
*chen 1196	Полуостров Киндо, Белое море, 66.551° с.ш., 33.048° в.д., 20.07.2006, <i>С. Бээр s.n.</i> (MW)	KJ000578	PV798578	202/150
*chen 1201	Малошуйка, 63.78° с.ш., 37.41° в.д., <i>С. Бээр и А. Бээр s.n.</i> (MW)	KJ000579		
*chen 1203	Малошуйка, 63.78° с.ш., 37.41° в.д., <i>С. Бээр и А. Бээр s.n.</i> (MW)	KJ000580		
*chen 1207	Чупа, 66.26° с.ш., 33.04° в.д., <i>П. Волкова</i>	KJ000581		
<i>Salicornia procumbens</i> Sm. subsp. <i>procumbens</i>:				
chen 986a	Западно-Казахстанская область, <i>Н. Freitag 28.223</i> (KAS)	JX257141		
*chen 1208	Ивановка, 46.391° с.ш., 32.111° в.д., 20.8.2006, <i>С. Бээр и А. Бээр 15.1</i> (MW)	KJ000582	PV798585- PV798589	102/-
*chen 1209	Ивановка, 46.391° с.ш., 32.111° в.д., 20.8.2006, <i>С. Бээр 15.2</i> (MW)	JX257147	PV798580	106/54,2
chen 1210	Ивановка, 46.391° с.ш., 32.111° в.д., 20.8.2006, <i>Бээр s.n.</i> (MW)	JX257148		

Б. Последовательности nrETS солеросов, собранные нами из чужих чтений

LOCUS Salicornia_europaea(?) SRR24425728_allele_1 497 bp DNA linear PLN
06-SEP-2025

DEFINITION Salicornia_europaea(?)

ACCESSION Salicornia_europaea(?) SRR24425728_allele_1

VERSION

KEYWORDS .

SOURCE Salicornia_europaea(?)

ORGANISM Salicornia_europaea(?)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
Salicornia.

REFERENCE 1 (bases 1 to 497)

AUTHORS Samigullin, T.H.

TITLE Direct Submission

JOURNAL Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
Research Institute of Physicochemical Biology, M.V.Lomonosov Moscow
State University, Leninskie gory, 1, str.40, Moscow, 199992,
Russian Federation

COMMENT Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
Bankit Comment: TOTAL # OF SEQS:3
Bankit Comment: FeatPropSourceSeq:S.bigelovii_SRR28511430

##Assembly-Data-START##
Assembly Method :: canu v. 2.2
Sequencing Technology :: PacBio
##Assembly-Data-END##

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/mol_type="genomic DNA"
/db_xref="taxon:3434848"

misc_RNA <1..>497
/product="external transcribed spacer"

BASE COUNT 105 a 91 c 143 g 158 t

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1 tgtaggggtg catgtaggca cggtccttgt gatgcggtac gtgatgggtg gtgagtggtgta
61 tttggtttgt gtggttggcg ggctctttgc ttgtgcattg gaccgttcac caacataacct
121 tttcattgta tgctgcaagt gcaccattht gccttggggcg acgtgtgggtc cctatgtttgg
181 attccgatta acggtattgt tgttgtccct ttaaagagtg atattcgctc tacgtccgta
241 aaaggaggtc gagcggacca tgaacttga ctcgttatcc tcctgttttg tgaaaacaag
301 catgataggg ttggattatg atctcaagtt gggccctagg atacagaaag ttgtgtggga
361 gttgatgtaa aaacgtcgca aacccaaagc gttgggtacgc taatgatgga tgacattcga
421 gtgtgtttgtg attctttcat tctagaaagg ttcatgctcg ccgatgtcga ccaaggagtg
481 ctacctgggt gatcctg
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LOCUS Salicornia_europaea(?) SRR24425728_allele_2 497 bp DNA linear PLN
06-SEP-2025

DEFINITION Salicornia_europaea(?)

ACCESSION Salicornia_europaea(?)_SRR24425728_allele_2

VERSION

KEYWORDS .

SOURCE Salicornia_europaea(?)

ORGANISM Salicornia_europaea(?)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
Salicornia.

REFERENCE 1 (bases 1 to 497)

AUTHORS Samigullin,T.H.

TITLE Direct Submission

JOURNAL Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
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State University, Leninskie gory, 1, str.40, Moscow, 199992,
Russian Federation

COMMENT Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
Bankit Comment: TOTAL # OF SEQS:3
Bankit Comment: FeatPropSourceSeq:S.bigelovii_SRR28511430

##Assembly-Data-START##
Assembly Method :: canu v. 2.2
Sequencing Technology :: PacBio
##Assembly-Data-END##

FEATURES Location/Qualifiers

source 1..497
/organism="Salicornia sp."

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        /db_xref="taxon:3434848"
misc_RNA <1..>497
        /product="external transcribed spacer"
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    61 tttggtttgt gtggttggcg ggctctttgc ttgtgcattg gaccgttcac caacatacct
   121 tttcattgta tgctgcaagt gcaccatttt gccttgggcg acgtgtgggc cttatgttgg
   181 attccgatta acggtattgt tgttgtccct ttaaagagtg acattcgctc tacgtccgta
   241 aaaggaggtc gagcggacca tgaaacttga ctcgttatcc tcctgttttg tgaaaacaag
   301 catgataggg ttggattatg atctcaagtt gggccctagg atacagaaag ttgtgtggga
   361 gttgatgtta aaacgtcgca aacccaaagc gttggtacgc taacgatgga tgacattcga
   421 gtgtgttggtg attctttcat tctagaaagg ctcatgcgcg ccgatgtcga ccaaggagtg
   481 ctacctggtt gatcctg

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LOCUS      S.bigelovii_SRR28511430  497 bp      DNA      linear      PLN 06-SEP-2025
DEFINITION Salicornia bigelovii.
ACCESSION  S.bigelovii_SRR28511430
VERSION
KEYWORDS   .
SOURCE     Salicornia bigelovii
  ORGANISM Salicornia bigelovii
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
            Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
            Salicornia; Salicornia subgen. Salicornia.
REFERENCE  1 (bases 1 to 497)
  AUTHORS  Samigullin,T.H.
  TITLE    Direct Submission
  JOURNAL  Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
            Research Institute of Physicochemical Biology, M.V.Lomonosov Moscow
            State University, Leninskie gory, 1, str.40, Moscow, 199992,
            Russian Federation
COMMENT    Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
            Bankit Comment: TOTAL # OF SEQS:3
            Bankit Comment: FeatPropSourceSeq:S.bigelovii_SRR28511430

##Assembly-Data-START##
Assembly Method      :: canu v. 2.2

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Sequencing Technology :: PacBio

##Assembly-Data-END##

FEATURES Location/Qualifiers
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 /mol_type="genomic DNA"
 /db_xref="taxon:46105"
 misc_RNA <1..>497
 /product="external transcribed spacer"

BASE COUNT 102 a 88 c 146 g 161 t

ORIGIN

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121  tttcattgta  tgctgcaagt  gcaccathtt  gccttgggca  acgtgtggtc  cctatgttgg
181  attccgatta  acggtattgt  tgttgtccct  ttaaggagtg  atattcgctc  tatgtctgta
241  aaaggaggtc  gagcggacca  tgaagcttga  cttgttatcc  tcctgttttg  tgaaaacaag
301  catgataggg  ttggattatg  atctcaagtt  gggccctagg  atacagaaag  ttgtgtggga
361  gttgatgtta  aaacgtcgca  aacccaaagc  gttggcacgc  ttgcatgga  tgacattcga
421  gtgtgtttgt  aaactttcat  tcttgaaggg  ttcattgcgcg  tcgatgtcaa  ccaaggagtg
481  ctacctggtt  gatcctg
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LOCUS S.europaea_(bigelovii?)_SRR19078398 497 bp DNA linear PLN
 06-SEP-2025

DEFINITION Salicornia sp.

ACCESSION S.europaea_(bigelovii?)_SRR19078398

VERSION

KEYWORDS .

SOURCE Salicornia sp.

 ORGANISM Salicornia sp.

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
Salicornia.

REFERENCE 1 (bases 1 to 497)

 AUTHORS Samigullin,T.H.

 TITLE Direct Submission

 JOURNAL Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
 Research Institute of Physicochemical Biology, M.V.Lomonosov Moscow
 State University, Leninskie gory, 1, str.40, Moscow, 199992,
 Russian Federation

COMMENT Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
Bankit Comment: TOTAL # OF SEQS:4
Bankit Comment: FeatPropSourceSeq:S.fruticosa_ERR10116823

##Assembly-Data-START##
Assembly Method :: SPAdes v. 4.0.0
Sequencing Technology :: Illumina
##Assembly-Data-END##

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/mol_type="genomic DNA"
/db_xref="taxon:3434848"
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/product="external transcribed spacer"

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121 tttcattgta tgctgcaagt gcaccattht gccttgggca acgtgtggtc cctatgttgg
181 attccgatta acggtattgt tgttgtccct ttaaggagtg atattcgctc tatgtctgta
241 aaaggaggtc gagcggacca tgaagcttga cttgttatcc tcctgttttg tgaacaag
301 catgataggg ttggattatg atctcaagtt gggccctagg atacagaaag ttgtgtggga
361 gttgatgtta aaacgtcgca aaccxaaagc gttggtacgc ttgcgatgga tgacattcga
421 gtgtgttttg aaactttcat tcttgaaggg ttcattgcgcg tcgatgtcaa ccaaggagtg
481 ctacctggtt gatcctg
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LOCUS S.brachiata_SRR14624534 497 bp DNA linear PLN 06-SEP-2025
DEFINITION Salicornia brachiata.
ACCESSION S.brachiata_SRR14624534
VERSION
KEYWORDS .
SOURCE Salicornia brachiata
ORGANISM Salicornia brachiata
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
Salicornia; Salicornia subgen. Salicornia.
REFERENCE 1 (bases 1 to 497)
AUTHORS Samigullin, T.H.

TITLE Direct Submission
 JOURNAL Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
 Research Institute of Physicochemical Biology, M.V.Lomonosov Moscow
 State University, Leninskie gory, 1, str.40, Moscow, 199992,
 Russian Federation
 COMMENT Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
 Bankit Comment: TOTAL # OF SEQS:4
 Bankit Comment: FeatPropSourceSeq:S.fruticosa_ERR10116823

 ##Assembly-Data-START##
 Assembly Method :: SPAdes v. 4.0.0
 Sequencing Technology :: Illumina
 ##Assembly-Data-END##
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 /db_xref="taxon:179119"
 misc_RNA <1..>497
 /product="external transcribed spacer"
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 121 tttcattgta tgctgcaagt gcaccathtt gccttgggcg acgtgtggtc cttatgttgg
 181 attccgatta acggtattgt tgttgtccct ttaaagagtg acattcgctc tacttccgta
 241 aaaggaggtc gagcggacca tgaaacttga ctcgttatcc tcctgttttg tgaaaacaag
 301 catgacaggg ttggattatg atctcaagtt gggccctagg atacagaaag ttgtgtggga
 361 gttgatgtta aaacgtcgca aacccaaagc gttggtacgc taacgatgga tgacattcga
 421 gtgcgttgtg attctttcat tctggaaagg ttcattgcgcg ccgatgtcga ccaaagagtg
 481 ctacctggtt gatcctg

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LOCUS S.ramosissima_ERR10116824 497 bp DNA linear PLN
 06-SEP-2025
 DEFINITION Salicornia ramosissima.
 ACCESSION S.ramosissima_ERR10116824
 VERSION
 KEYWORDS .
 SOURCE Salicornia ramosissima
 ORGANISM Salicornia ramosissima

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
Salicornia; Salicornia subgen. Salicornia.

REFERENCE 1 (bases 1 to 497)
AUTHORS Samigullin,T.H.
TITLE Direct Submission
JOURNAL Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
Research Institute of Physicochemical Biology, M.V.Lomonosov Moscow
State University, Leninskie gory, 1, str.40, Moscow, 199992,
Russian Federation
COMMENT Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
Bankit Comment: TOTAL # OF SEQS:4
Bankit Comment: FeatPropSourceSeq:S.fruticosa_ERR10116823

##Assembly-Data-START##
Assembly Method :: SPAdes v. 4.0.0
Sequencing Technology :: Illumina
##Assembly-Data-END##

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misc_RNA <1..>497
/product="external transcribed spacer"
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121 tttcattgta tgctgcaagt gcaccattht gccttggggc acgtgtggtc cttatgttgg
181 attccgatta acggtattgt tgttgtccct ttaaagagtg acattcgctc tacgtccgta
241 aaaggaggtc gagcggacca tgaaacttga ctcgttatcc tcctgttttg tgaaaacaag
301 caagataggg ttggattatg atctcaagtt gggccctagg atacagaaag ttgtgtggga
361 gttgatgtta aaacgtcgca aaccxaaagc gttggtacgc taacgatgga tgacattcga
421 gtgtgttgtg attctttcat tctagraagg ctcatgcgcg ccgatgtcga ccaaggagtg
481 ctacctggtt gatcctg
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LOCUS S.fruticosa_ERR1011682
3 498 bp DNA linear PLN 06-SEP-2025

DEFINITION Salicornia fruticosa.
 ACCESSION S.fruticosa_ERR10116823
 VERSION
 KEYWORDS .
 SOURCE Salicornia fruticosa
 ORGANISM Salicornia fruticosa
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
 Pentapetalae; Caryophyllales; Chenopodiaceae; Salicornioideae;
 Salicornia; Salicornia subgen. Arthrocnemoides.

REFERENCE 1 (bases 1 to 498)
 AUTHORS Samigullin,T.H.
 TITLE Direct Submission
 JOURNAL Submitted (06-SEP-2025) Evolutionary Biochemistry, A.N.Belozersky
 Research Institute of Physicochemical Biology, M.V.Lomonosov Moscow
 State University, Leninskie gory, 1, str.40, Moscow, 199992,
 Russian Federation

COMMENT Bankit Comment: ALT EMAIL:samigullin.t.h@gmail.com
 Bankit Comment: TOTAL # OF SEQS:4
 Bankit Comment: FeatPropSourceSeq:S.fruticosa_ERR10116823

##Assembly-Data-START##
 Assembly Method :: SPAdes v. 4.0.0
 Sequencing Technology :: Illumina
 ##Assembly-Data-END##

FEATURES Location/Qualifiers
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 /db_xref="taxon:224149"
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421 gcgcgttctg actctttctt gttcgaagg gatcatgcgt gccgatgccg gccgaggagt
481 gctacctggt tgatcctg

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