

**IGL1**  
68247 bp

**LOCUS** **IGL1** **68247 bp** **DNA** **linear**  
**DEFINITION** Medaka Immunoglobulin light chain locus 1.  
**SOURCE** *Oryzias latipes* (Japanese medaka)  
**ORGANISM** *Oryzias latipes*

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha;  
Beloniformes; Adrianichthyidae; Oryziinae; *Oryzias*.

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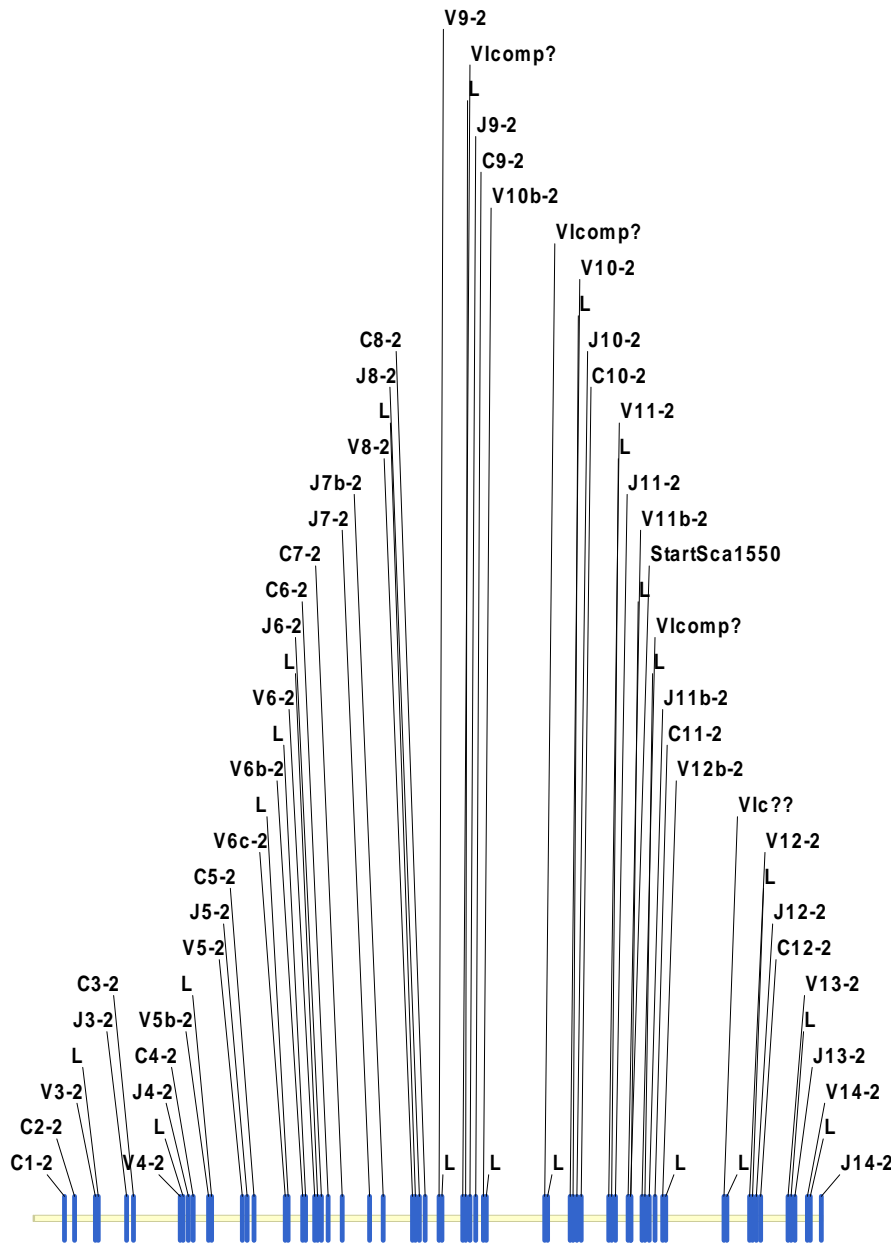
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**IGL2**  
115004 bp

**LOCUS**            **IGL2**                            **115004 bp**    **DNA**            **linear**

DEFINITION Medaka Immunoglobulin light chain locus 2.  
SOURCE Oryzias latipes (Japanese medaka)  
ORGANISM Oryzias latipes  
Eukaryota;Metazoa;Chordata;Craniata;Vertebrata;  
Euteleostomi;Actinopterygii;Neopterygii;Teleostei;Euteleostei;  
Neoteleostei;Acanthomorpha;Acanthopterygii;Percomorpha;  
Atherinomorpha;Beloniformes; Adrianichthyidae; Oryziinae;  
Oryzias.

FEATURES	Location/Qualifiers
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C_region	4408..4664 /product="C1-2"
C_region	5890..6206 /product="C2-2"
V_segment	complement(8891..9193) /product="V3-2"
misc_feature	complement(9308..9359) /note="Region: Leader"
J_segment	13476..13513 /product="J3-2"
C_region	14459..14775 /product="C3-2"
V_segment	complement(21253..21552) /product="V4-2"
misc_feature	complement(21665..21718) /note="Region: Leader"
J_segment	22419..22456 /product="J4-2"
C_region	23137..23450 /product="C4-2"
V_segment	complement(25405..25704) /product="V5b-2"
misc_feature	complement(25819..25870) /note="Region: Leader"
V_segment	complement(30342..30677) /product="V5-2"
J_segment	31062..31099 /product="J5-2"
C_region	32036..32352 /product="C5-2"
V_segment	complement(36605..36904) /product="V6c-2"
misc_feature	complement(37019..37070) /note="Region: Leader"
V_segment	complement(39137..39433) /product="V6b-2"
misc_feature	complement(39548..39599) /note="Region: Leader"
V_segment	complement(40842..41177) /product="V6-2"
misc_feature	complement(41277..41325) /note="Region: Leader"
J_segment	41833..41870 /product="J6-2"
C_region	42810..43126

C_region	/product="C6-2" 44895..45211
J_segment	/product="C7-2" 48901..48938
J_segment	/product="J7-2" 50885..50922
V_segment	/product="J7b-2" complement(55154..55489)
misc_feature	/product="V8-2" complement(55590..55638)
J_segment	/note="Region: Leader" 56139..56176
C_region	/product="J8-2" 56963..57276
V_segment	/product="C8-2" complement(59046..59345)
misc_feature	/product="V9-2" complement(59460..59511)
V_segment	/note="Region: Leader" complement(62495..62801)
misc_feature	/product="VLcomp?" /note="The sequence is not complete" complement(62901..62949)
J_segment	/note="Region: Leader" 63554..63591
C_region	/product="J9-2" 64363..64679
V_segment	/product="C9-2" complement(65507..65806)
misc_feature	/product="V10b-2" complement(65921..65972)
V_segment	/note="Region: Leader" complement(74437..74707)
misc_feature	/product="VLcomp?" /note="The sequence is not complete" complement(74822..74873)
V_segment	/note="Region: Leader" complement(78167..78502)
misc_feature	/product="V10-2" complement(78602..78650)
J_segment	/note="Region: Leader" 79161..79198
C_region	/product="J10-2" 79745..80061
V_segment	/product="C10-2" complement(83751..84122)
misc_feature	/product="V11-2" complement(84222..84270)
J_segment	/note="Region: Leader" 84782..84819
V_segment	/product="J11-2" complement(86618..86917)
misc_feature	/product="V11b-2" 86928
misc_feature	/note= Scaffold 1550 starts complement(87032..87083)
V_segment	/note="Region: Leader" complement(88654..88958)
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misc_feature   complement(100981..101032)
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V_segment      complement(104326..104661)
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misc_feature   complement(104761..104809)
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                /product="J12-2"
C_region       105904..106220
                /product="C12-2"
V_segment      complement(109910..110281)
                /product="V13-2"
misc_feature   complement(110381..110429)
                /note="Region: Leader"
J_segment      110941..110978
                /product="J13-2"
V_segment      complement(112777..113076)
                /product="V14-2"
misc_feature   complement(113191..113242)
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                /product="J14-2"

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BASE COUNT 32768 a 21233 c 22504 g 33749 t 4750 others

ORIGIN

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121 gtaacacgct gacagcaaaa tcagcgcctca aaaagcacct taataagtca tgtgatctca
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241 gatgtgtctg cttacatggc acacgcaaat gcacgtatcc gattagtttc tgattttattt
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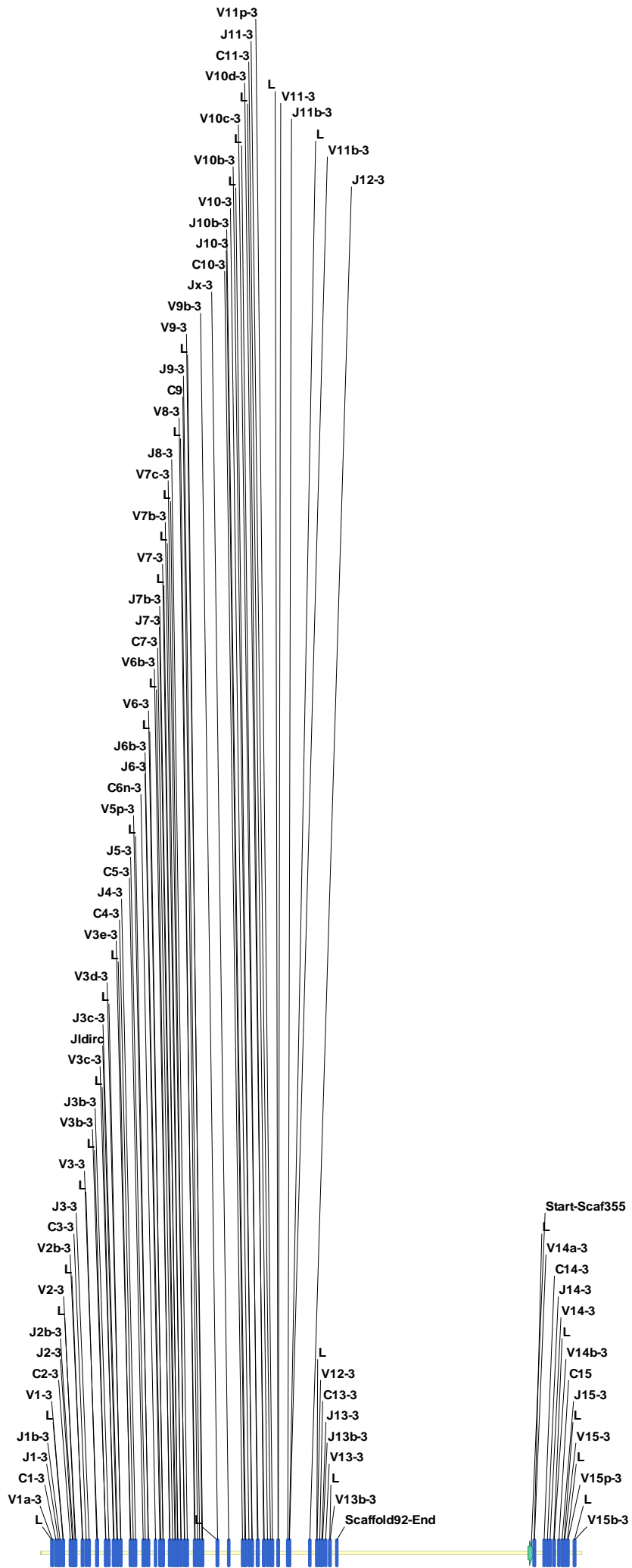


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112621 aacaaaaaat caaatcaaat ttgaaaaaaa aatttctttt ttatgaacta aattatcaat  
112681 aaaacacatt tgcaccaaga ggttgagagc agttgttcat tcagatcagt tcctctttag  
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114241 ctatggtccc tctgacaatc accgggatca tcatgacaca tcatgctgg tagccagtgg  
114301 cgtttaaggt cttgcccaaa ggccctcact ggggtgatgtt aattgttcc cactgatatg  
114361 gtaattgccc cagtaccatt gttcattcct atcaaaccct ggattctct ggtagtctc  
114421 caccaccaac agagctaccc agccgcttta gcccggttat gattaggata aataaactga  
114481 caaaactgta ttggactaat aagggagcta agatcagttt caaagcaaaa tgggtctatt  
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114901 gtaagatttt cacagatttc gttttttcat ataatgcagg aaacattcac agatgcagat  
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//



**IGL3**  
221644 bp

**LOCUS** IGL3 221644 bp DNA linear  
**DEFINITION** Medaka Immunoglobulin light chain locus 3.  
**SOURCE** Oryzias latipes (Japanese medaka)  
**ORGANISM** Oryzias latipes  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;  
Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha;  
Beloniformes; Adrianichthyidae; Oryziinae; Oryzias.  
**REFERENCE** 1 (bases 1 to 221644)  
**FEATURES** Location/Qualifiers  
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/organism="Oryzias latipes"  
/mol\_type="genomic DNA"  
misc\_feature 4325..4376  
/note="Region: Leader"  
V\_segment 4484..4798  
/product="V1a-3"  
C\_region complement(5966..6270)  
/product="C1-3"  
J\_segment complement(6888..6921)  
/product="J1-3"  
J\_segment complement(7656..7695)  
/product="J1b-3"  
misc\_feature 8866..8917  
/note="Region: Leader"  
V\_segment 9025..9339  
/product="V1-3"  
C\_region complement(11826..12136)  
/product="C2-3"  
J\_segment complement(12755..12790)  
/product="J2-3"  
J\_segment complement(13100..13137)  
/product="J2b-3"  
misc\_feature 13833..13889  
/note="Region: Leader"  
V\_segment 14057..14362  
/product="V2-3"  
misc\_feature 16808..16859  
/note="Region: Leader"  
V\_segment 16967..17278  
/product="V2b-3"  
C\_region complement(18328..18647)  
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J\_segment complement(19543..19580)  
/product="J3-3"  
misc\_feature 22763..22814  
/note="Region: Leader"  
V\_segment 22922..23233  
/product="V3-3"  
misc\_feature 26348..26399  
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V\_segment 26507..26830  
/product="V3b-3"  
J\_segment complement(27710..27747)  
/product="J3b-3"  
misc\_feature 29609..29660  
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V\_segment 29769..30083  
/product="V3c-3"  
J\_segment complement(30928..30962)  
/product="J1"  
J\_segment complement(31254..31291)  
/product="J3c-3"  
misc\_feature 32482..32533  
/note="Region: Leader"  
V\_segment 32641..32958  
/product="V3d-3"  
misc\_feature 36483..36534  
/note="Region: Leader"  
V\_segment 36642..36959  
/product="V3e-3"  
C\_region complement(37638..37948)  
/product="C4-3"  
J\_segment complement(38593..38630)  
/product="J4-3"  
C\_region complement(41799..42148)  
/product="C5-3"  
J\_segment complement(42546..42583)  
/product="J5-3"  
misc\_feature 43758..43809  
/note="Region: Leader"  
V\_segment 43919..44223  
/product="V5p-3"  
/note="It has stop codons. It is a pseudogen."  
C\_region complement(46839..47051)  
/product="C6n-3"  
/note="The sequence is not complete."  
J\_segment complement(48594..48631)  
/product="J6-3"  
J\_segment complement(48948..48985)  
/product="J6b-3"  
misc\_feature 49783..49803  
/note="Region: Leader"  
V\_segment 49998..50306  
/product="V6-3"  
misc\_feature 52617..52668  
/note="Region: Leader"  
V\_segment 52776..53090  
/product="V6b-3"  
C\_region complement(53792..54108)  
/product="C7-3"  
J\_segment complement(54729..54768)

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misc_feature	/product="J7b-3" 55804..55849 /note="Region: Leader"
V_segment	56015..56311 /product="V7-3"
misc_feature	57194..57245 /note="Region: Leader"
V_segment	57353..57661 /product="V7b-3"
misc_feature	58581..58632 /note="Region: Leader"
V_segment	58740..59025 /product="V7c-3"
J_segment	complement(59872..59909) /product="J8-3"
misc_feature	62882..62933 /note="Region: Leader"
V_segment	63041..63355 /product="V8-3"
C_region	complement(64060..64376) /product="C9-3"
J_segment	complement(64934..64971) /product="J9-3"
misc_feature	65819..65870 /note="Region: Leader"
V_segment	66036..66288 /product="V9-3"
misc_feature	72098..72149 /note="Region: Leader"
V_segment	72257..72571 /product="V9b-3"
J_segment	complement(76867..76920) /product="Jx-3"
C_region	complement(82500..82810) /product="C10-3"
J_segment	complement(83456..83493) /product="J10-3"
J_segment	complement(83815..83852) /product="J10b-3"
V_segment	85101..85415 /product="V10-3"
misc_feature	86300..86351 /note="Region: Leader"
V_segment	86459..86773 /product="V10b-3"
misc_feature	88674..88725 /note="Region: Leader"
V_segment	88833..89147 /product="V10c-3"

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 V\_segment 101760..102074  
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 J\_segment complement(110064..110101)  
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 J\_segment complement(115048..115089)  
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 J\_segment complement(115402..115439)  
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 misc\_feature 118223..118274  
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 V\_segment 118382..118696  
 /product="V13b-3"  
 misc\_feature 121150  
 /note="The end of the Scaffold 92"  
 misc\_feature 199591  
 /note="The Scaffold 355 starts"  
 misc\_feature 202121..202172  
 /note="Region: Leader"  
 V\_segment 202280..202594  
 /product="V14a-3"  
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 /product="C14-3"  
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misc_feature      208371..208422
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V_segment        208627..208926
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misc_feature      210187..210238
                  /note="Region: Leader"
V_segment        210346..210660
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C_region         complement(212229..212542)
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J_segment        complement(213512..213549)
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misc_feature      214400..214451
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V_segment        214617..214913
                  /product="V15-3"
misc_feature      215771..215822
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V_segment        215932..216245
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misc_feature      218559..218610
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BASE COUNT 43090 a 27063 c 25479 g 41679 t 84333 others

ORIGIN

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121  tttgcagcaa  atgctattct  ggaaccagat  tttttttttt  ttaaacaata  agaaacccaa
181  aaggtttcca  aattaatgtc  ctttattaac  ttggaagaag  gtgactgaaa  catttataac
241  aatthcttta  atthttcccc  tttgthtgat  atthtcagcaa  atgcttaaaa  tgctgtthta
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1561  atthttctth  cagactthcta  cthtttagth  caactgagca  thgthccaac  actacagact
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1741  catctcagaa  atththtagat  atthththgac  gggthththg  gththggat  ththgthgtaa
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2281 ttcaagggtg ttggagttag atcaggatca gtttaaaatg cgaagaataa ttcaatataa  
2341 aaatthaaata ttgatgggaa ttttacagat aatctthaaaga aaatagccag ccgttgctcc  
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