

Solanum lycopersicum Cytokinin Response Factors (*SICRFs*): characterization of CRF domain containing ERF genes in tomato. *X Shi, S Gupta, and AM Rashotte.*

SUPPLEMENTARY TABLE S1.

<u>Gene Name</u>	<u>Chromosome/Position (Build 2.40)</u>	<u>Gene Model</u>	<u>Size (AA/bp)</u>
<i>SICRF1/Pti6</i>	Ch 6 (44654446- 44653700)	Solyc06g082590	248/747
<i>SICRF2</i>	Ch 8 (62045738-62046757)	Solyc08g081960	340/1023
<i>SICRF3</i>	Ch 1 (2911579-2910313)	Solyc01g008890	344/1035
<i>SICRF4</i>	Ch 3 (2016125-2014935)	Solyc03g007460	396/1191
<i>SICRF5</i>	Ch 1 (78502891-78503773)	Solyc01g095500	293/882
<i>SICRF6</i>	Ch 6 (32043471-32044523)	Solyc06g051840	350/1053
<i>SICRF7</i>	Ch 1 (14595809-14596333)	Solyc01g014720	174/525
<i>SICRF8</i>	Ch 1 (2901188-2900649)	Solyc01g008880	175/540
<i>SICRF9</i>	Ch 3 (62191449-62190256)	Solyc03g119580	397/1194
<i>SICRF10</i>	Ch 5 (3622457-3621438)	Solyc05g009450	339/1020
<i>SICRF11</i>	Ch 4 (874453-875505)	Solyc04g007180	350/1053

SICRF1/Pti6 SL2.40ch06 (44654446- 44653700), BAC C06SLe0014B21.1 AC216656.1
 Unigene SGN-U579886 Tomato 200607 Build 2 (26 members) GenBank # U89257.1
 Lycopersicon esculentum DNA-binding protein Pti6 mRNA, complete cds and # AK323007
 Solanum lycopersicum cDNA, clone from leaf.

SICRF1/Pti6 DNA Sequence (747bp)

ATGACGGAAAATTCAGTTCGGTGATTAAATTCACTCAACACATAGTAACTACAAAC
 AAGCATGTTTTTCTGAGCATAACGAAAAATCCAATTCAGAGTTACAAAGAGTTGTG
 AGGATTATACTTACAGATGCCGATGCTACAGATTCTTCCGATGATGAAGGCCGGAAT
 ACTGTACGGAGAGTGAAGAGGCACGTGACGGAGATCAACCTTATGCCGTCAACCAA
 ATCGATCGGCGACAGAAAACGAAGATCGGTGTCTCCGGATTCTGACGTCACTCGTGC
 GAAAAAGTTTAGAGGGCGTTCGTCAAAGACCGTGGGGTTCGTTGGGCTGCAGAGATTC
 GGGACCCGACCCGGGGAAAACGGGTGTGGTTGGGTACTTATGACACCCCAAGAA
 GCAGCTGTCGTTTACGATAAAGCTGCAGTTAAGCTCAAAGGTCCTGACGCCGTTACC
 AATTTCCGGTATCAACAACGGCGGAGGTAACGGTGACGGTTACGGAAACCGAAAC
 CGAGTCTGTTGCCGACGGTGGAGATAAAAGCGAAAACGATGTCGCTTTGTCACCCA
 CCTCAGTTCTGTGACAATGATTTTGCGCCGTTTGACAATCTAGGGTTCTGCGAAGT
 GGATGCTTTTGGTTTCGACGTTGATTCACTTTTCCGGCTGCCGGATTTTGCTATGACG
 GAGAAATACTACGGCGATGAATTCGGCGAATTTGACTTTGACGATTTTGCCCTTGAA
 GCTCGA**TAG**

SICRF1/Pti6 Protein sequence (248AA)

MTENSVPVIKFTQHIVTTNKHVFSHNEKSNSSELQRVVRIILTDADATDSSDDEGRNTRV
 RVKRHVTEINLMPSTKSIGDRKRRSVSPDSVTRRKKFRGVRQRPWGRWAAEIRDPTRG
 KRVWLGTYDTPEEAAVVYDKAAVKLKGPDVTFNFPVSTTAEVTVTVTETETESVADG
 GDKSENDVALSPTSVLCDNDFAPFDNLGFCEVDAFGFDVDSLFRLPDFAMTEKYYGDEF
 GEFDFDDFALEAR

SICRF2

SICRF2 SL2.40ch08 (62045738-62046757) SGN-U572081 gil147801286|embl|CAN77118.1
Tomato 200607#2 [2 ESTs aligned] Genbank # AK321000 Solanum lycopersicum cDNA, clone
from leaf

SICRF2 DNA Sequence (1023bp)

ATGGACCAACAAACCATGTTGTCTAGTGGTGTTAAGTATACCGAACATAGAAAGCA
AATCACTATGGTTAGACCAGCACCTCCGGTGACTTTTAATGGTCGGAGGAGAAGCTC
TGAGATGAATGCTGCCGGTCCTAGAGTTGTAAGGATTACTGTTACTGATGCTGATGC
TACTGACTCTTCGAGTGATGAAGGGGAACAGGGGTTTTATGGCCGTCAAAGAGTGA
GAAAGTTTGTGAATGAAGTTCGGATAGAGCAGAGCAGCCACTGTAATGGAAGTGTA
AATGGGGTTTTGAGAAATGGGTCATCGTCGGAAACTGCTCCCGTTGTCGCTGCAGCA
CCGAAGAGGAGGAAGAAGACCGCCGGAGCAACAACGGCGGGCAGTAAGCTAAAAG
TGAACCATGTTAAAAGTTTCGCGGGCGTACGGCAACGGCCTTGGGGCAAATGGGCG
GCAGAAATCAGAGATCCACTGAGACGTGTACGGTTATGGTTAGGCACTTACGATACT
GCTGAAGAAGCTGCCATGGTTTATGACCACGCGGCTATTCAGCTACGTGGGCCTGAC
GCGCTCACAACTTCGGCCACTCCTCCGGCGACGAAAATCAGCTGCTTCCAGCTACA
AATCCCGGCGAAGAATCGCACAAACGATCAACGCTCGCCGAAGTCCGTTTTACGATG
TGCTTCAACTTCATTTGATGAATCTCAGAATAACGAGGAAGCCGAAGCTGAGTCATT
ACCGATTTTACCCTCCGATATCAGGGACAAAAATGACATTTCCATGTCGGAAAACCT
CTCCGATTTACCCCCGTTTCGAGAGTTTCTTCCCCGATGATTTGTTTCAGTTCGAGAAC
CCGATTACCATATCCGACTTGTTTTTTGAACCGGATACTTTACCCGACTACAATAATA
TGTTATTCGGGTCAAGTACTACAGATTACGGTTTCGGATCTTCATCCTGGCCCCGAAG
AGGACTTCTTTCAGGATTTTCGGAGATGTATTCCGGTTTGACCCGCTTGTGGCTCTT**TG**
A

SICRF2 Protein Sequence (340AA)

MDQQTMLSSGVKYTEHRKQITMVRPAPPVTFNGRRRSSEMNAAGPRVVRITVTDADAT
DSSSDEGEQGFYGRQRVRKVFNEVRIEQSSHCVNGSVNGVLRNGSSSETAPVVAAPKRR
KKTAGATTAASKLKVNHVKKFRGVRQRPWGKWA AEIRDPLRRVRLWLGTYDTAE EA
AMVYDHAAIQLRGPDALTNFGHSSGDENQLLPATNPGEESHNDQRSPKSVLRCASTSFD
ESQNNEEAEAESLPILPSDIRDKNDISMSENFSDLPPFESFFPDDLQFENPITISDLFFEPDT
LPDYNMMLFGSSTTDYGFSSSWPEEDFFQDFGDFVFGFDPLVAL

SICRF3 > SL2.40ch01 (2911579-2910313): SL_MboI0034O03_SP6_280529 , SGN-U573201 Tomato 200607#2 [3 ESTs aligned]: contig >SL1.03ct37214: Genbank #AK328278.1 Solanum lycopersicum cDNA, clone from fruit

SICRF3 DNA Sequence (1035bp)

ATGGCCTCCAAGGATGAACATAAGGAAAATGATGCAGTCGAGGAACCCCTCAGAAAT
TCCCAGAGTTGAGAAATCTATCAACCCAGTGGGTGAAAGTTCTGTTGTCTTGCCGCG
TGTTGTGCGTATTTACATGCCGACAGTGACGCCACAGACTCATCTAGTGACGAGGA
GGAAAAGCTTCAAGGAGAGAAGTCCAAGAGACATAAAAGGACGTGTATAAAGGAA
ATCATCATTGAGAATGGGAAGACCAGGGTCATTTCAAAGAAGACGTCCAAAGAGAA
GAAAGATATAAAGATGTTCCAAGAAAATGCGAAGAAGTACAAAGGAGTTAGACAA
CGGAGATGGGGCAAATGGGCAGCAGAGATCCGAGACACAAAAAACAAAACCTCGAC
TTTGGCTGGGCAGTTTTGACACTGCTGAAGAAGCTGCTTTGGCTTATGATAAGGCAG
CCATTGAAATAAGAGCAATGACCCCAAGGAAGAGCTTCAGGTAAGAGAGGGAGTC
AAAGAACCCTCAGTAATTGCCCTAGTTGAAAAATCCAGCAATCAAGTGGGCGAAAT
TTCCCAAGTCTTTCCACGTCTTGTACGTATTCACGCGCCGGACCATGACACAACAGA
CTCGTCTAGTGACGAGGAGGAGAAGGATGAAGAAGAGAAGTCCGAGGGACATGAA
AGGACGTGCGTAAAGGAAATCATCATCGAGAATGGAAAGACCAAGGACATTTCAA
GAAGAAGTCCAAAGAGAAGAAAGCTTCGAATCTGATGCAAGAAGATGTGAATAAGT
ACAGGGGAGTTAGACGACGAAAATGGGGTAAGTGGGCAGCAGAGATTCGAGATAC
AAGAAAGAAAACCTCGGCTTTGGTTGGGAACCTTTTGATACTGCTTTAGAAGCTGCTTT
GGCTTATGACAAGGCAGCCATTGAAATAAGAGGTGCTGATGCTTTAACTAACATCCT
GAAGCCACCACCGAAGAAAACAACCCCATCAAGATCAACTTCATCGTGCCACCTC
TAAAAGACAGAAGGCGGATCCA**TAG**

SICRF3 Protein Sequence (344AA)

MASKDEHKENDAVEEPSEIPRVEKSINPVGESSVVLPRVVRIYMPDSDATDSSSDEEEKL
QGEKSKRHKRTCIKEIIIENGKTRVISKKSKEKKDIKMFQENAKKYKGVRQRRWGKWA
AEIRDTKNKTRLWLGSFDTAEEAALAYDKAAIEIRAMTPKEELQVKEGVKEPSVIALVE
KSSNQVGEISQVFPRLVRIHAPDHDTTSSSDEEEKDEEEKSEGHERTCVKEIIIENGKTK
DISKKSKEKKASNLMQEDVNKYRGRRRKWKWAAEIRDTRKKTRLWLGTFTDALE
AALAYDKAAIEIRGADALTNILKPPPKNNPIKINFIVPPLKRQKADP

SICRF3 (N-terminal)

MASKDEHKENDAVEEPSEIPRVEKSINPVGESSVVLPRVVRIYMPDSDATDSSSDEEEKL
QGEKSKRHKRTCIKEIIIENGKTRVISKKSKEKKDIKMFQENAKKYKGVRQRRWGKWA
AEIRDTKNKTRLWLGSFDTAEEAALAYDKAAIEIRA

SICRF3 (C-terminal)

MTPKEELQVKEGVKEPSVIALVEKSSNQVGEISQVFPRLVRIHAPDHDTTSSSDEEEKD
EEKSEGHERTCVKEIIIENGKTKDISKKSKEKKASNLMQEDVNKYRGRRRKWKW
AAEIRDTRKKTRLWLGTFTDALEAALAYDKAAIEIRGADALTNILKPPPKNNPIKINFIV
PPLKRQKADP

SICRF4 > SL2.40ch03 (2016125-2014935): Scaffold 06183: SGN-U574151 Tomato 200607
Build 2 (2 members)

SICRF4 DNA Sequence (1191bp)

ATGGATTATCATTTCGCTGTGTCCGATCAAATACACTGAGCATCGGAATGTTATTAGA
AAAGTTACTAAACCATCTTTGGTGAAATCAAAAAAAGCTCTCAGAAGCTGCAAATC
CTCTCAGTTGAATCCCTCTGTTCCAAGGACTGTTTCGGATTTCTGTGACAGACCCAGA
CGCAACCGATTCTTCAAGCGATGAAGAAGACCTGCTTTTTTGGACGGCGACGGGTGA
AAAAGTACATCAATGAAATCAGTATTGAAACTGCCGTCAAGTGTGAAGTTAGCAGT
GGAAATGGCAAACGGTGAATAAAAGAGCACCAGAGCCTCTTCAGACTAAGCAGA
AGCCAATGAAAGTTCAGCCTCCTCCATCGGGCTGGTGCTGCTAGGAAGTTCCGCGGTG
TGCGTCAACGGCCGTGGGGTAAATGGGGCGGCTGAGATCAGGGACCCAGCTCGCCGT
GTTTCGGCTTTGGTTGGGAACCTACGATACTGCTGAAGAAGCTGCTATGGTTTATGAC
AACGCTGCTATTAAGCTCCGTGGTCCCGATGCTTTAACAACCTTCAGCACTCCTGCC
AAGGCCGAGCCAGAACCAGAACCAGAGCCAGAGCCCGAAATCAGTGCTCTGTCTCA
CTCCGGCTATGAATCCGGGAATGAGTCCCGTAACATCCCCTCTCCAACCTTCTGTTTTA
CGGTGTACAATGAGCCAATCAGAAAGCGGGTCCGGCCAGGTTTCATGTTTCGGAAGA
GTGTCCTTCGGTTCAAGGATCGATGGAATGTGAGCAAACGGTTCAACCGTTTGTTC
ATGTGCTGCTGAACCGCTGATTCCATCAGCGATTCCGCAGGACGTTGAGGAATGTCA
GGGCGAGACCAGCATGATTCTGATTACTCAAGCGATTACTTGCCAACAGATATTCC
ATTCTTAAATGATTTTTTCAATTTTCGATGGTTCAGCAGCTGAGCAAACGTTACTTGAG
GACTCAACTATGACAGCCGTAACATCAACAACAACAACAACAACACCAAACGAATT
TGGCGATTTGTGCAACGATTCATTGGATTTTGGGAATGATTTCTTGTTAACGATGCT
GATTTTCGCTGAATTCGGCAGTTTTGATGATCTGGGTGATTTAGGAATGGATGATTTTT
CTCAAGACAACAGTGTTGTTGATTATTCCAGTGTTGATTCTCTGTTAGCAATT**TGA**

SICRF4 Protein Sequence (396AA)

MDYHSLCPIKYTEHRNVIRKVTKPSLVKSKKLSEAAKSSQLNPSVPRTVVRISVTDPDATD
SSSDEEDLLFGRRRVKKYINEISIEAVKCEVSSGNGKTVNKRPEPLQTKQKPMKVQPP
PSAGAARKFRGVRQRPWGKWAAEIRDPAARRVRLWLGYDTAEEAAMVYDNAAIKLRG
PDALTNFSTPAKAEPEPEPEPEPEISALSHSGYESGNESRNIPSPTSVLRCTMSQSESGSQ
VHVSEECPSVQGSMECEQTVQPFVQCAAELIPSAIPQDVEECQGETSMIPDYSSDYLP
DIPFLNDFNFDGSAAEQTLLEDSTMTAVTSTTTTTTPNEFGDLCNDSLDFGNDFLFNDA
DFAEFGSFDDLGLGMDDFSQDNSVVDYSSVDSLLAI

SICRF5 > SL2.40ch01 (78502891-78503773): SGN-U583231 Tomato 200607 Build 2 (3 members)

SICRF5 DNA Sequence (882bp)

ATGGAATCACAAAAAATCAAAAAGAAATTAGTCCACAAAACACTATCACTACTAAGTA
TGATCATCACACAAGTGGACTCCTAAAGTTGTTCCGGATTTGTTACACTGATTGTGA
TGCTACTGATTCTTCAAGCGACGACGATGACGACGAGAGGAATCGAGTGAAAAAAT
ACGTTACAGAGATTAATTTGAGAAGAAAATGGCTGCTGCAGATGTGAGGAAATCG
TTGAATTCGAATAAGAAGAAGAAGAAAGCGATCGATTTGAAGAGAGATGAGAATGT
TAAAAAGTTTCGCGGTGTCAGACAGAGGCCATGGGGAAAATGGTCTGCGGAGATTC
GAGATCCGGTGAAAAAACGAGGGTTTGGTTAGGTACTTTTGATACCGCTGAAGAA
GCGGCTATGAAATATAATATAGCCGCTATTCAATTGCGCGGAGCTGATGCTATCATT
AATTTTATTGAGACACCTTTCCCAAAGGAAAATGCGATCACTTCAGTATCGGATTAT
GATTCCACAGGGGAATGTGAAAACCTCTGTTCTCCACCTCAGTTTTGAGGCAGAAT
AATAACAATAATGATAAAGATAACGAAGATGCGATTGCGATTGATACTAAAATTAT
GAACGATGAGAGCAAAAAAATGGAAATGGATGAAAATGGATTTATGTTTGATGATA
ATTTGCCATTAATGGGTGAGAGTTTCCTTAAGGATTTCTTCGATTTTCGATCCCCTTC
TCCATTGATGGATGATGTATTATTACCAGGTTTTAGCGATGGAATGGGATTATTACC
AGAAGTGTTGAGTATTCATGGAAATAGAATGTTGGATGAAGATTTGGAGACTTGTA
AGTGGGCAAATGATTTCTTCCAAGATGTTTGT**TGA**

SICRF5 Protein Sequence (293AA)

MESQKIKKKLVHKTITTKYDHHNKWTPKVVRICYTDCDATDSSSDDDDDERNRVKKYV
TEIKFEKKMAAADVRKSLNSNKKKKKAIDLKRDENVKKFRGVRQRPWGKWSAEIRDP
VKKTRVWLGTFTAEAAAMKYNIAAIQLRGADAIINFIETPPFKENAITSVSDYDSTGEC
ENLCSPTSVLRQNNNNNDKDNEDAIAIDTKIMNDESKKMEMDENGFMFDDNLPLMGQS
FLKDFDFRSPSPLMDDVLLPGFSDGMGLLPEVLSIHGNRMLDEDLETCKWANDFQDV
C

SICRF6 SL2.40ch06 (32043471-32044523) No Unigene

SICRF6 DNA Sequence (1053bp)

ATGGATCATCACAGTTCGCTTTGTCCGATCAAATATACCGAACACAAGAGAACAATC
AGAAAAGTTACTAAGCCTTCCGTTATTAAGCCTAAGAAGGTATCAGATGTTCCGAAA
TCCTCGGAGTATAATCCGAGGACTGTACGGATATGTGTTACTGATCCAGATGCAACT
GACTCTTCAAGTGATGAAGATGAGCTTTTTGGGCGTAAGCGTGTGAAAAGATACATT
AGTGAATCAGTATTGAGAGTCCATCAGTTAATGATGTGAAAACCTTTGAGTAGTGGT
AATGGGAAGAAGCGAGTAGCTGAAGGTTTCGCAGGCCAAGCAGAAGGCGTTGAAAG
GGAAGGAAGTGGCTGATAAAACGGTTCGGAAGTTCAGGGGAGTGCGTCAACGGCCG
TGGGGTAAATGGGCTGCTGAAATCAGAGACCCAGCGCGTCGCGTTAGGCTCTGGTT
AGGTACTIONTATGATACTGCTGAAGAAGCTGCTATGGTTTATGATAATGCAGCTATTAA
GCTCCGTGGACCAGATGCTTTAACTAATTCATCACTCCTCCAATAAAAGAGAAGCC
GGAAGTGAATGTGGCTTCGAATTCGGGGTACGAATCTGGTGATGAATCACACAATCT
TTCTTCTCCTACCTCTGTTTTGCGGTTCAGAAGTAGCGAATCCAGTGAAGAAGCAGA
ACCCGGTCTCGAAGACATAAAAGAAAATTGCACAGTATTGGTGAAGAAGAACCAA
ACAGTGAGCACCTTGAGTGCCAAGGCGAGACACTTACAGTCATACCAGACTATTCA
AATGACTACTTACCCACAGACGTTTCCTTCTTAGACGATTATTTCACTTTGCAGATG
CAGAACAGTCACTGTTTAAATGACACAACAAGTTTCACCAATGATGATTTGTTTTCGT
CTTGGGATTTCAAAATGACTCTGTGTTAGACCCAGAGATCTGCAAATTTGATGATT
CATTTCTAGACTTGGGTGCATTAGAAGTGGATAATTATTTCAAAGACATTGGAGATT
TTCCAGTGTTGATGTACTAATGGCGTTA**TAG**

SICRF6 Protein Sequence (350AA)

MDHHSSLCPIKYTEHKRTIRKVTKPSVIKPKKVSDVRKSSEYNPRTVTRICVTDPDATDSS
DEDELFGRKRVKRYISEISIESPSVNDVKTLSSGNGKKRVAEGSQAKQKALKGKEVADK
TVRKFRGVRQRPWGKWA AEIRDPARRVRLWLGTYDTAEEAAMVYDNAAIKLRGPDAL
TNFITPPIKEKPEVNVASNSGYESGDESHNLSSPTSVLFRSSESSEEAEPLGLEDIKENCTV
LVEEPPNSEHLECQGETLTVIPDYSNDYLPTDVSFLDDYFNFADAEQSLFNDTTSFTNDD
LFSSWDFTNDSVLDPEICKFDDSFLLDGALEVDNYFKDIGDFSSVDVLMAL

SICRF7 > SL2.40ch01(14595809-14596333): No Unigene

SICRF7 DNA Sequence (525bp)

ATGGCTTCCAAAGATGAGCTTCACGAAAATGAGGTTGTCAAAAACCAATCAAAGA
TGCTAGAGGAAATAAAACCAATCTAATGGGAGATTGTTCTGTAGTCTTGCAACGTGT
TGTACGGATTTACATAACGGACAATGACGCCACAGACTCATCTAGTGATGAGGAGG
AAAATCATCAAGGAGAGAACTCCAAACGACAAAAAAGGATTTGCAAAGAAATTATC
ATAAAAAATGGAAAGACCAATGTCACCTCAAAAATGGTATCCTCCAAAGAGAAAA
TGTTACAAAAACGCACCAAGAAAATGTAAAGAAGTACAGGGGAGTTAGACAAAGA
AAATGGGGAAGCTGGGTTGCAGAGATTCGAGATATAAGAATTAATAACGACGTTG
GTTGGGAAGTTTTGCCACTGCTTATGAAGCTGCTTTGGCTTATGACAAGGCAGCCAT
TGAAATAAAAGGTCCAAATGCTTTGACAAACATTCTTAAGCCGCCACCGAAGGAAA
TCGACCCCATCAACCAT**TAA**

SICRF7 Protein Sequence (174AA)

MASKDELHENEVVKVQSKDARGNKTNLMGDCSVVLQRVVRIYITDNDATDSSSDDEEN
HQGENSKRQKRICKEIIKNGKTNVTSKMVSSKEKNVTKTHQENVKKYRGVRRQKRWGS
WVAEIRDIRINKRRWLGSFATAYEAALAYDKAAIEIKGPNALTNILKPPPKEIDPINH

SICRF8 > SL2.40ch01 (2901188-2900649): No Unigene

SICRF8 DNA Sequence (540bp)

ATGACCACCAAGGATGAGCTAAAGAAGAATGAGGCACTCGAAAAATCCTCAAAGT
TGTCAGAGTAAAAAAGTTCACCAAACAATTAGGTAAAAGTTCTATTATCATGCCGCA
TGTTATACGTATTTATATGCAAGATAATGACGCCACAGACTCATCTAGTGATGATGA
GGAAAATGTTCAAGGAGGAAAGTCCAAGCGCAATAAAATAATATGTAACGAAATCA
TCATTGAAAAGAAAAACACCAAGGTCGTTTCAAAGAGGATGTCGTCCAAAAAGAAG
AGAGATAAGAACTACTTCTAGAAAATGTGGAGAAGTACAGGGGAGTTAGACGGCG
AGAATCTGGAAGGTGGGCAGCAGAGATTCGATATGGAAGAAAGGAAGCTCGACGA
CGTTGGTTGGGAACTTTTGATACTTCTAGAGAAGCTGCTTTGGCTTATGACAAGGCA
GCTATCGAAATAAAAGGTGCTAATGCTTTAACAAATATTCTCGATCCACCACCAAAG
GAATCAACCCCATCAACACCGTGCCACCAATAA

SICRF8 Protein Sequence (179AA)

MTTKDELKKNEALEKSSKVVVRVKKFTKQLGKSSIIMPHVIRIYMQDNDATDSSSDDEEN
VQGGKSKRNKIICNEIIIEKKNKTKVVSARMSSKKRDKKLLLENVEKYRGVRRRESGRW
AAEIRYGRKEARRRWLGTFTDSREAAALAYDKAAIEIKGANALTNILDPPPKESTPSTPCH
Q

SICRF9>SL2.40ch03: (62191449-62190256): No Unigene *(formerly SICRFL3)

SICRF9 DNA Sequence (1194bp)

ATGAAGTTTGAAAAGGATGTTAAAAGGGAGAGGGTTATGGATGGTTGCATTAGTTC
AGTGAGGAAAGTTCGCATAGTTTATGATGATCCTGATGCTACGGACTCTGAGAGCGA
TGATGATCAGAATGCTGCTCGTTTCGATAAAAATGTGAACAGAATCAAGCGTGTTGT
TAAGGAAATTGTTATTCCTGTTGTTTCATGGGAGAATGATTTTAAAAAATGTTCTAA
ACTTGATAACATTAGGATTAAGATTCCAAGAAGATTCATGAAAATAAGAAGGTGC
AGCTAAAATCGACCGCGTTGCCTAAAGGAGTTAGGATGAGGAAATGGGGGAAATAT
GCAGCTGAGATCAGAGATCCCTCGCAGGGGAAAAGAATATGGTTAGGGACTTTTGA
GACTGTGGAGGCGGCTTACAAGCATAACGAGGCAAAGAGGGCTGAATTTGATAGGA
TTATTTCAATTGGGGAAGGGTAAGAATTTGAGCCCTGGTCCTGCTGAGTGTTCTATGG
CGTGTACGTCTCATCCTACAAATGGGAAAAATCGTGTGTACTCACACCCTTCCCCGT
CTTCGGTGCTAGATGTCCCCACATCATCAGCTGCTGCCCCGGTTGAGTCCAATGAAA
ATCTAACGAGAGATATGGCTCGAATGCCAGATTCAGGTTCTGAAGATTTTAGCTTGA
GTTTTGAGGACCAAATGCTTCATGAATTTATCAAACAAAGACAGGGCATTTCAGAAT
TGATCGAACATCCTTTGATAGAACAAGGCTCGATCAGCAATAGCGTTATGGAGATG
ACTGAAGTGAATATCAGGAAGAAAACGAAAGCCAGACAACCAACGATAGCAAGTT
GTAAAATATTGACAAAGGGAAGTACTGAGGACTACAGTAATGACAAGTCCATTTTCAGT
GTATTAACGAGCCTACAATCATGTCTCCTATTCATACAGAGCTGCTTCACTTGAAC
ATCGAGGAAACAGCAGTTACGGGGAATAGCTTGAAACTTCTAGGCTTTGATGACAA
TGCTTTATTTGATAAAGATATATCACAATTATTTGATCCATATGCAGATGCTATATGC
TTGGACAACACTTTTCAATGCTGTGATGGTTGGAATGAGTGTGTTTATTGCAAAATTT
TCAAAGATGAAGTCGACCTAGATGAAGTTGACTTAAGATGGTTAGATGCAGTTTTGG
TATAA

SICRF9 Protein Sequence (397AA)

MKFEKDVKRERVMDGCISSVRKVRIVYDDPDATDSESDDDQNAARFDKNVNRIKRVV
KEIVIPVVSWENDFKKCSKLDNIRIKDSKKIHENKKVQLKSTALPKGVRMRKWGKYAAE
IRDPSQGKRIWLGTFETVEAASQAYEAKRAEFDRIISLGKGNLSPGPAECSMACTSHPT
NGKNRVYSHSPSSVLDVPTSSAAPVESNENLTRDMARMPDSGSEDFSLSFEDQMLHE
FIKQRQGISIELIEHPLIEQGSISNSVMEMTEVNIRKKTARQPTIASCKILTKGTEDYSNDK
SIFSVLNEPTIMSPIHTELLHLNIEETA VTGNSLKLGFDDNALFDKDISQLFDPYADAICL
DNTFQCCDGWNECVYCKIFKDEVLDLDEVDLRWLDAVLV

SICRF10 > SL2.40ch05 (3622457-3621438): SGN-U578981 *(formerly SICRFL1)
gil157338783lemb|CAO42134.1 Tomato 200607#2 [10 ESTs aligned]

SICRF10 DNA Sequence (1020bp)

ATGTCCGAGTCTCGGAGACAATCTCAGAAATCGAAGATTAGGGAAGAATCAGCCCG
ACCCATGAGGAAAATCCGGATCGTTTGTGACGACCCGGAAGCTACTGATTCATCTGA
TGATGAAGGGGTTGATGTATCGAAACCCAAACGATTTGTTAGGGGAGATTTATCTTCC
TGTTGTTAGCTCTTTTACCCTGAAAAAAGTACCTGAAACTGAAAGTTCTTGTCAAGA
TAGCAACAATGGTGACAAAAAGAGAGCTAAAACCCCTAAAACCCCGAGTGGCCCTA
GGCCCTCGTCTTCGAAATACCGAGGTGTTTCGTCAGCGTAAATGGGGTAAATGGGCTG
CTGAAATTAGGGATCCTTTTAAATCTAGGAGGGTCTGGCTTGGTACTTATAATACTG
CTGAAGAAGCTTCTCATGCTTATGAAATGAAAAGGCTTGAATTCGAAGCGATGGCTA
AGAGTAATTCGAATACTGATGTGTCTGAGAAGAGCTCGAATAACGAATGCAACAAC
AGAATCATCGAAAGGTCAACAATGCTGGTTGTGTATCAGAGGAGGATGACTCTGC
TCAGAGTTTGGTCTCACATACTTCACACACATCTCCAGCATCAGTTTTTGAATGGAT
TCATTGACTTCTGGTTCTGCTGCAGTGTCTGAGGTTAACAACAACGACAACTCGTC
GTGCAGCTAGTGGATGTCGATAAGATGGGATTGATGGAGGATAGTTTATCGCTTGCT
GACATTGGTGCACGAATGGATTTTCGATACGGAGATGGACATGTTCTTTGCTGGGAAT
GATAATTTTGATCAGAATCTTGATGACTTTGCTGTGAATGATTTTCGAGGATCTTCCAA
TATGTGGACTTGATGAGCAGTTGCCTGCTGGTTTACCTGATTTTGATTTTCGACTTTGA
TTTTGATGGATAACAATGAAGCTTGTGCTTGGATGGATGATGTAGCAGCTACTCCATT
GATGAATGGAACAACAACAACACCCCTCAATATTGCATTATGCCCA**TAA**

SICRF10 Protein Sequence (339AA)

MSESRRQSQKSKIREESARPMRKIRIVCDDPEATDSSDDEGVDSKPKRFVREIYLPVVSS
FTLKKVPETESSCQDSNNGDKKRAKTPKTPSGPRPSSSKYRGVRQRKWGWKWA AEIRDPF
KSRRVWLGTYN TAE EASHAYEMKRLEFEAMAKSNSNTDVSEKSSNNEC NKNHRKVN
NAGCVSEEDDSAQSLVSHTSHTSPASVFEMDSLTS GSAAVSEVNNNDKLVVQLVDVDK
MGLMEDSLSLADIGARMDFDTEM DMFFAGNDNFDQNLDDFAV NDFEDLPICGLDEQLP
AGLPDFDFDFDFDGYNEACA WMDDVAATPLMNGTTTTTPLNIALCP

SICRF11 > SL2.40ch04 (874453-875505): SGN-U572199 *(formerly SICRFL2)
gil157338783|embl|CAO42134.1 Tomato 200607#2 [4 ESTs aligned]

SICRF11 DNA Sequence (1053bp)

ATGCTTAAGCCTTTGTCATCAAAATTTGAGAATCTTGGTAGAAACATGAAGAAAAAA
GTTGATACAAACAGATTAGTGAGGAAAATTAGGATTGTTTGTAATGATCCTGATGCT
ACTGATGATTCCTCGGACGATGATTCGAGGTGTAAGCGTTTCGTTAGAGAGATTAAG
TTGCAAATTGGCAACTCTTTTAATCTTAGAAAAGCCTCTGAGATTGAATGTTCAATTC
AAGATAGTAACAATGGAGAGAAAAAAGAAAGAAGGTTTAGTTAAACCCCT
GATCAACCAAGGCCAGCAGGGGGTTTATTATCGAAATACAAAGGTGTTTCGTC AAC
GAAAATGGGGGAAATGGGCTGCTGAAATTCGTGATCCATTTAAAGGCAGACGTGTT
TGGTTGGGTACCTATAATACCGCTGTGGAGGCTTCTCGAGCTTACGAATTGAAACGT
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TGTCGAGCAAGAAGTGCCTGAGTTGGCTATGATGGAGGAACTCTACCTCTGTCTCA
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TGATTTCAATCAGCATTGGATGAGTTTGTGTCATGATTTTGAGGACCCTCCGGTT
TATCTGATCGAGGGTATGAGCAGTTGCCTACTGGTTTGCCTGATTTTGATGACTTCA
ATTTGATGGCTACAATGAATCCTTTTCTTGGATGGATGATGCTCCACGGACAAATG
GAACACCCCTCAATATAGCATGCCCA**TAA**

SICRF11 Protein Sequence (350AA)

MLKPLSSKFENLGRNMKKKVDNRLVRKIRIVCNDPDATDDSSDDDSRCKRFVREIKLQ
IGNSFNLRKASEIECSFQDSNNGEKKKKKEGLVKPLIQPRPAGGLLSKYKGVQRKWK
WAAEIRDPFKRRVWLGTYN TAVEASRAYELKRLEFETRAKISR TNVSKQSSGSMVSEY
QNQSQNVASGVSDDYAESSVSRTSHSLSSSVLELDLTSVSASAPILRLNPN DNEKVS
NVAPLEANVVEQEVPELAMMEETLPLSQIGESMDLDLELESFLIGADDFNQHLDEFV
VNFEDPPVYLIEGDEQLPTGLPDFDDFNFDGYNESFSWMDDAPRTNGTPLNIACP