

SUPPLEMENTARY DATA 1

FIG. S1. Alignment of the core CID regions from the 93 unique protein sequences and signature consensus according to the criteria of Joshi *et al.* (1997).

ArathICK1/KRP1	MPTSESEIEDFFVEAEKQLKEK	-----	EKKKYNFD FEKEKPLEG	----	RYEWWKLE-
ArathICK2/KRP2	TVKEAELEDFFQVAEKDLRNK	--LLECS	SMKYNFD FEKDEPLGG	----	RYEWWKLN
ArathICK6/KRP3	IPTTSEMEEFFAYAEQQQRL		FMEKYNFD IVNDIPLSG	----	RYEWWQVKP
ArathICK7/KRP4	RPTTPEMDEFFSGAEEEQQQKQ	----	FIEKYNFD PVNEQPLPG	----	RFEWTKVDD
ArathICK3/KRP5	KSIQSEIIEDFFASAEQQQRF	----	FIQKYNFD IVSDNPLPG	----	RYEWWKVMP
ArathICK4/KRP6	TPTAAEIEDLFSLELSQDDKKKQ	----	FIEKYNFD IVNDEPLEG	----	RYKWDRL--
ArathICK5/KRP7	SPTQAELEDDFFSAAERYEQKR	----	FTEKYNFD IVNDIPLSG	----	RYQWVSLKP
MedtrTC102985	TPTTNEVDEFFALAEKQQQAL	----	FMEKYNFD VVNDVPLPG	----	RYEWWPVLH
MedtrCB894939	IPISEPFEEYFAKHEAEQORE	----	FMEKYNFD PVTEQPLPG	----	RFEWEKVSF
MedtrKRPMT	IPISREFEEFCAKHEAEQORE	----	FMEKYNFD PVTEQPLPG	----	RYEWEKVSF
GosarTC39505	MPTAELEEEFFAPAEKKLQKQ	----	FADKYNFD TVQDEPLEG	----	RYEWWRLKP
GosarTC36522	VPSTQEMEEFFVYAEQQQHRR	----	FIEKYNFD IVNDLPLQG	----	RYDWVKIIP
GosarTC30716	IPSQAEIIDEFFSVAEKYEQKR	----	FAEKYNFD IVKDVPLDG	----	RYQWLRILKP
Goshi :DT571795	IPTSHEMDEFFTLAEVDQQRQ	----	FIEKYNFD PVKDKPLPG	----	RYQWEKVDP
LacsaDW054560	MPSAQEIEVFFARHAHEQQR	----	FSXKYNFD IVNEKPLEG	----	RYEWWKVQP
LacpeDW085493	IPSTNEMDEFFTQPEKHQQKL	----	FMEKYNFD PVKENPLKG	----	RYEWLKVED
LacpeDW087080	IPTTLEMEEFFTEPEKQQQKL	----	FIEKYNFD PVNDKPLPG	----	RYQWVKMDN
LacpeDW085482	FPTAAEIDDDFFVVAEKKEQKR	----	FADKYNFD IVNDVPMEG	----	RYQWVRLKP
SoltuTC129555	MPSEAELEDEFFAAAEKDLHKK	----	FAEKYNFD FAKKEPLEG	----	RYEWWRVQ--
SoltuTC126156	IPTTHEMNDFFAGTEEKQQKQ	----	FIEKYNFD PVNDKPLPG	----	RYKWWKQVDR
SoltuTC114843	IPTDLEIIDEFFTRAKEQQRK	----	FIEKYNFD PVNDKPLPG	----	RYEWLKVYS
SoltuCV492391	IPSAHEIEEFFFFAEQQQRL	----	FMEKYNFD VVNDVPLSG	----	RYEWIRVNH
NicsyKIS1	MPSEKEIIEDFFAVRQKAI FKR	----	FREKYNFD FEKEEPSEG	----	RYEWWRIGS
NctrKIS1a	MPSEKEIEEFFFARQKAILKR	----	FRKKYNFD FEKEEPLEG	----	RYEWWRIGS
NictoKIS2	MPSETDLEEFFAAAEKDILKR	----	FTKKYNFD FVKEEPLSG	----	HYEWWRSTV
NictaDW003665	MPSEKEIIEDFFAVRQKAI FKR	----	FREKYNFD FEKEEPLEG	----	RYEWWRIGS
NictaDV161051	VPSEAEIEEFFFVAEKREQKR	----	FAEKYNFD IAKDVPLKG	----	RYQWVSLKP
SollyKRP1	IPTDLEMEEFFTRAKEQQRK	----	FIEKYNFD PVNEKPLPG	----	RYEWWKVNH
SollyKRP2	IPSAHEIIEEFFFFAEQQQRL	----	FMDKYNFD VVNDVPLSG	----	RYEWIRVNH
GlymaCKI11	MPTELELEEEFFAAAEKDIQKR	----	FQDRYNFD IVKDVPLEG	----	RYEWWQLKP
GlymaCKI12	MPTELELEEEFFVAEKDIQKR	----	FQDKYNFD IVKDVPLEG	----	RYEWWQLKP
GlymaCKI21	MPTELELEDEFFAAAEKDIRKR	----	FSDKYNFD IVKGVSLSG	----	RYEWWKLE--
GlymaCKI22	VPTSESELEDFFAAAEKDIQKR	----	FTDKYNFD FVKDMPLEG	----	RYEWWQL--
GlymaTC209994	TTPKAEIEEFFFMAAEKYEQKR	----	FTEKYNFD IVRDIPLEG	----	RYQWVRLH-
GlymaTC231727	IPTSREMDEFFFAEIEEAQQKK	----	FIEKYNFD PVNEKPLSG	----	RYEWEKLLKP
VitviTC39855	MPSESELEEFFAAAEKDVQKR	----	FSEKYNFD IVKDVPMEG	----	RYEWWRLKP
VitriCO408372	MPSTVEIEEFFFSAAEKYQQQR	----	FAEKYNFD IVKDAPMEG	----	RYQWVRLER
Eupes DV137303	IPTSHEMEEFFTYAEQEQQRL	----	FIEKYNFD IVNELPLSG	----	RYEWWQVIP
EupesKRP4	IPTAHEMDQFFAKAEQEQRQ	----	FMENYNFD PVNEKPLPG	----	RYEWEKLDP
PissaCKI	TPTHEYELEEFFAAAEKDIQKK	----	FQEKYNFD IILKDVPLEG	----	RYEWWQLKP
CheruCDKI1	MPSDSEIEEFFFVAEKDLQKR	----	FSEKYNFD IVKDVPLKG	----	RYDWVPINP
AquTC17730	IPTTQEMEEFFAGAEQQQRI	----	FAEKYNFD PVNDSPLPG	----	RYEWEERVNP
BetvuTC444	MPSDSEIEEFFFSTA EKDLHKK	----	FSDKYNFD IVNDVPLNG	----	RYEWWPLQP
PethyEST884434	MPSEIIELEDEFFVAEKDLHKK	----	FVQKYNFD FVDAEPLKG	----	SYEWWRL--
PhavuBQ481784	EPPKAEIEEFFFVAEKYEQKR	----	FVEKYNFD IGRDMPLEG	----	RYQWVRLH-
PoptrKRP2	RITDEEVEKFFCEIEKTVPQR	----	FKDKYNFD FDKDEALEG	----	RYEWWRLNP
PopeuTC43100	RITDEEVEKFFCEIEKTVPQR	----	FKDKYNFD FDKDEALEG	----	RYEWWRLNP
PoptrKRP1	RIADEEIEKFFGEIQKNIPQC	----	FKDKYNFD FDKDEPLEG	----	RYEWARLNP
PopTC37787	RITDEEIEKFFGEIQKNIPQC	----	FKDKYNFD FDKDEPLEG	----	RYEWARLNP
PoptrKRP4	IPTTREMDEFFGPAEEELRQ	----	FTEKYNFD PVSDKPLPG	----	RYEWEKLDP
PopTC23987	IPTTREMDEFFGPAEEELRQ	----	FTEKYNFD PVSDKPLPG	----	RYEWEKLDP
PoptrKRP5	IPTAHEMDEFFGPAEEELRQ	----	FTEKYNFD PVSDKPLHG	----	RYEWEKLDL
PopdeTC22599	IPTAHEMDEFFGPAEEELRQ	----	FTEKYNFD PVSDKPLHG	----	RYEWEKLDL
PoptrKRP3	IPTTCMDEFFAGVEQQQRL	----	FIEKYNFD IVNDLPLSG	----	RYEWWRVIP
PoptrTC41878	YPDNMEMDEFFAGVEQQQRL	----	FIEKYNFD IVNDLPLSG	----	RYEWWRVIP
PoptrKRP6	MPSQAEIDAFFTAGAEREEQRR	----	FAEKYNFD VVMDLPMEG	----	RYQWICLKP
PoptrKRP7	MPSQAEIDAFFTAGAEREEQKR	----	FAEKYNFD VVMDLPMEG	----	RYQWICLKP
PicglTC9046	VPTTNEIIEEFFFAGAEQQEQRR	----	FTDRYNFD PVSDSPLPG	----	RFEWVRLRP

PintaTC61074	APTLDELEDFFAAAEAREQKR	-----	FTERYNYDPVSDLPLSG	----	RYEWERLLP
pontrCD574460	MPAKSEIIEDFFAAEKKLVKQ	-----	FSQKYNFDFVKEEPMEG	----	RYKWVGLRP
Citsi:DN134829	MPAKSEIIEDFFAAEKKLVKQ	-----	FSQKYNFDFVKEEPMEG	----	RYKWVGLRP
CitsiCX674730	IPSAAEIIEFFTAAEKREQER	-----	FAEKYNYDIVNDLPLEG	----	RYQWVRLNE
IponiCJ753702	MPSAAEIEEEFFSAAEKYEQER	-----	FKQKYNFDVVKDVPLEG	----	RYEWWPLKP
MaldoCN912198	VVNASELEEEFFAAMEKESQOK	-----	FKEMYNFDVAKDEPHEG	----	RYEWWRLKP
TarkoDR402922	LPTAAEIEDEFFSVAEKKEQKR	-----	FTDKYNFDFVNDAPMEG	----	RYQWVRLKP
FraveCX661375	IPTAHDMDEFFAGAEQKQKQ	-----	FIDKYNFDFVNDKPLPG	----	RYEWEKLDP
OrysaKRP1	---AAEIEAFFFAAAEEAEAKR	-----	FAAKYNFDVVRGVPLDAG	----	RFEWTPVVS
OrysaKRP2	-AAAAEIEEFLAAAERSEAER	-----	FAAKYNFDVVRGVPLDAGGAG	----	RFEWTAVGS
OrysaKRP3	---EAEIEAFFFAAAELAERRR	-----	FAEKYNYDIALDRPLQG	----	RYEWEPTVP
OrysaKRP4	IPASAELEAFFFAAEEQRQRQA	-----	FIDKYNFDFVNDCLPLG	----	RFEWWKLD-
OrysaKRP5	VPSSLEMEEFFFAAAEQQHQA	-----	FRERYNFCPVNDCLPLG	----	RYEWTRLDC
OrysaKRP6	---EEEVEAFLAAAESSVARR	-----	FAAKYNYDIVKDAPMDG	----	RYEWWRVRP
ZeamaKRP1	VPSSREMNEYFAAEQRRQQD	-----	FIDKYNFDPANDCLPLG	----	RFEWWKLD-
ZeamaKRP2	---AHEIQEFFFFAAAEAAQAKR	-----	FASKYNFDFVVRGVPLDAGG	----	RFEWWAPVVS
ZeamaTC306014	IPSSLEMEEFFSAAEQQECHS	-----	FREKYNFCPVNDCLPLG	----	RYEWARLDC
ZeamaTC306015	IPSSLEMEEFFSAAEQQECHN	-----	FREKYNFCPVNDCLPLG	----	RYEWARLDC
ZeamaTC292391	---AQEIQEFFFFAAAEAAHAKR	-----	FASKYNFDFVVRGVPLDAG	----	RFEWTTPGVS
ZeamaCF636654	---AAEVEAFLAAAERGMARR	-----	FAVKYNVDIVKDAPMDGG	----	RYEWWRVRP
ZeamaKRP4	IPSSSTEMNEY-FAAEQRRQQQA	-----	FIDKYNFDFVNDCLPLG	----	RFEWWKLD-
TriaeTC255455	IPCSAEMNEFFSAAEQPQQQA	-----	FIDKYNFDFVNDCLPLG	----	RYEWWKLD-
TriaeTC257918	---AAEIEDEFFFAAAEKAQAER	-----	FAAKYNFDVARGVPLNA	----	GRFEWTPVAT
SorbiTC105178	IPSSHEMEEFFSAAEKQEQQS	-----	FREKYNFCPVNDCLPLG	----	RYEWARLDC
SorbiTC106554	---AQEIEEFFFFAAAEAAQAKR	-----	FASKYNFDFVVRGVPLEAGG	----	RFEWTPVVS
SorbiBG240420	---AAEVEAFLAAAESGMARR	-----	FAAKYNYDVVKDAPMDG	----	RYEWWRVGP
AgrcaDV852835	---PEEVEAFFFAAAESGVARR	-----	FAAKYNYDVVEDAPMDG	----	RYEWWRVRP
SacofCA111761	---AAEVEAFLAAAESGMARR	-----	FAAKYNYDVVKDAPMDG	----	RYEWWRMGP
SacofCA113287	---AAEVDAAFLAASESGMARR	-----	FASKYNYDVVKDAPMDG	----	RYEWWRMGA
OrysaICK1	---AAEIEAFFFAAAEEAEAKR	-----	FAAKYNFDVVRGVPLDAG	----	RFEWTPVVS
OrysaICK2	-AAAAEIEEFLAAAERSEAER	-----	FAAKYNFDVVRGVPLDAGGAG	----	RFEWTARFD
OrysaICK3	---EAEIEAFFFAAAELAERRR	-----	FAEKYNYDIALDRPLQG	----	RYEWEPTVP
OrysaICK4	---EEEVEAFLAAAESSVARR	-----	FAAKYNYDIVKDAPMDG	----	RYEWWRVRP
OrysaICK5	VPSSLEMEEFFFAAAEQQHQA	-----	FRERYNFCPVNDCLPLG	----	RYEWTRLDC
OrysaICK6	IPASAELEAFFFAAEEQRQRQA	-----	FIDKYNFDFVNDCLPLG	----	RFEWWKLD-

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