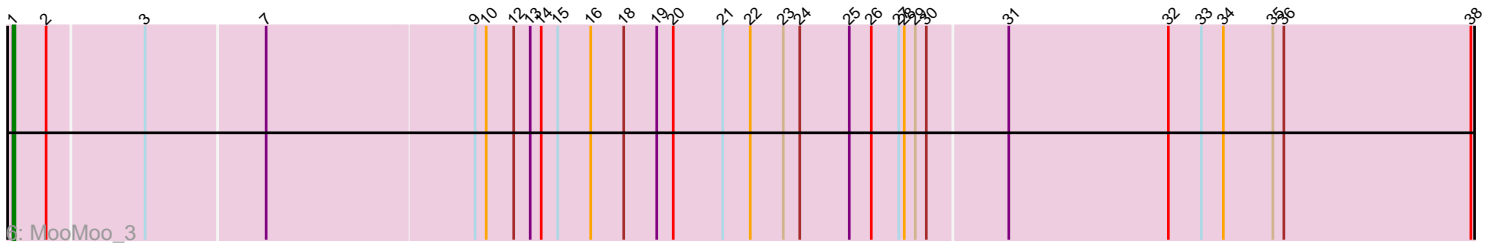
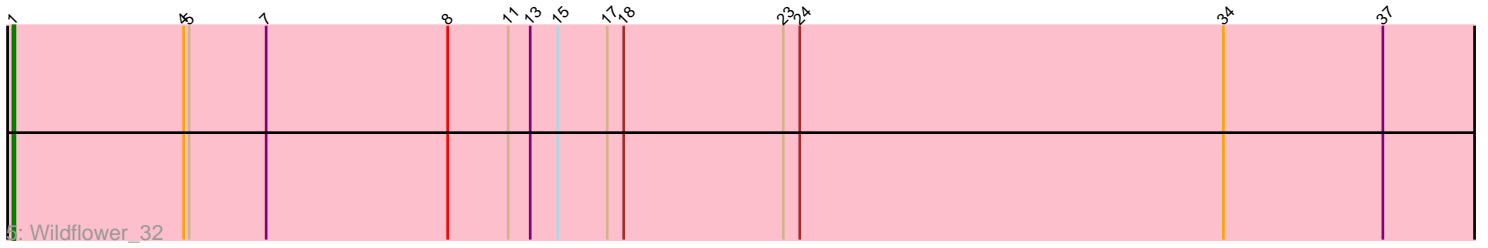
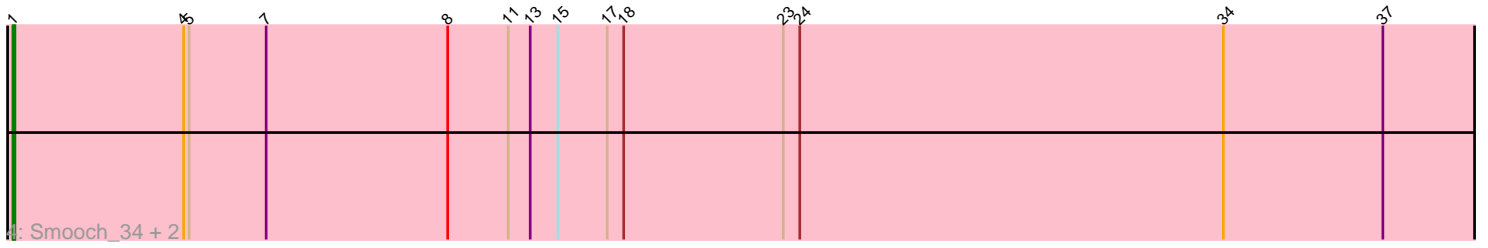
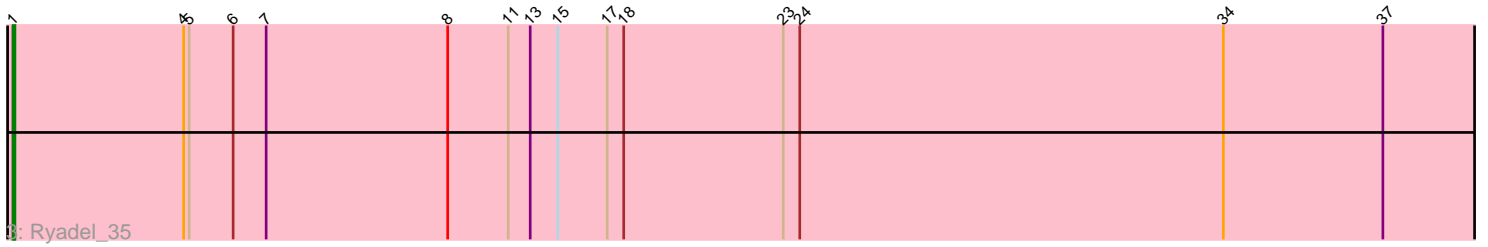
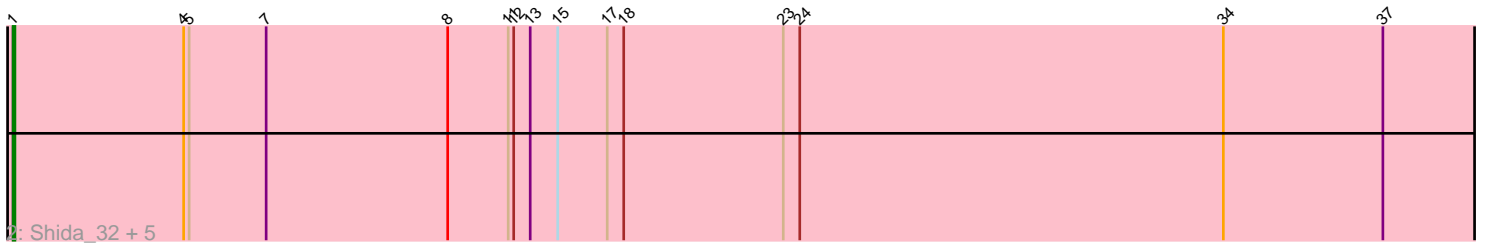
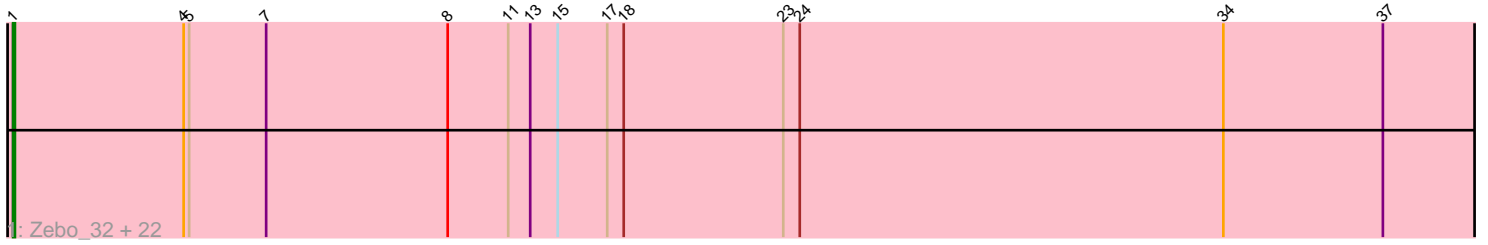


Zoomed Pham 305178



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 305178 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305178 has 35 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Zebo_32, Familton_33, Firecracker_32, JangDynasty_32, Catdawg_32, Idergollasper_32, Zakhe101_32, KingPhillip3_31, YungJamal_35, TelAviv_29, YoyoKar_30, Wogge42_31, Dylan_31, Imara_30, Bora_29, Blessica_33, MadKillah_33, Ashwin_33, Alkhayr_32, Vagabond_32, SchoolBus_32, FoulBall_32, Winget_33
- Track 2 : Shida_32, Corndog_34, Murai_32, Krili_31, Schuy_33, NiebruSaylor_31
- Track 3 : Ryadel_35
- Track 4 : Smooch_34, Vorrrps_31, Mori_31
- Track 5 : Wildflower_32
- Track 6 : MooMoo_3

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 1, it was called in 31 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_32, Ashwin_33, Blessica_33, Bora_29, Catdawg_32, Corndog_34, Dylan_31, Familton_33, Firecracker_32, FoulBall_32, Idergollasper_32, Imara_30, JangDynasty_32, KingPhillip3_31, Krili_31, MadKillah_33, MooMoo_3, Mori_31, Murai_32, NiebruSaylor_31, Ryadel_35, SchoolBus_32, Schuy_33, Shida_32, Smooch_34, TelAviv_29, Vagabond_32, Vorrrps_31, Wildflower_32, Winget_33, Wogge42_31, YoyoKar_30, YungJamal_35, Zakhe101_32, Zebo_32,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

-

Summary by start number:

Start 1:

- Found in 35 of 35 (100.0%) of genes in pham

- Manual Annotations of this start: 31 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_32 (O), Ashwin_33 (O), Blessica_33 (O), Bora_29 (O), Catdawg_32 (O), Corndog_34 (O), Dylan_31 (O), Familton_33 (O), Firecracker_32 (O), FoulBall_32 (O), Idergollasper_32 (O), Imara_30 (O), JangDynasty_32 (O), KingPhillip3_31 (O), Krili_31 (O), MadKillah_33 (O), MooMoo_3 (singleton), Mori_31 (O), Murai_32 (O), NiebruSaylor_31 (O), Ryadel_35 (O), SchoolBus_32 (O), Schuy_33 (O), Shida_32 (O), Smooch_34 (O), TelAviv_29 (O), Vagabond_32 (O), Vorrrps_31 (O), Wildflower_32 (O), Winget_33 (O), Wogge42_31 (O), YoyoKar_30 (O), YungJamal_35 (O), Zakhe101_32 (O), Zebo_32 (O),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, O,

Info for manual annotations of cluster O:

- Start number 1 was manually annotated 30 times for cluster O.

Gene Information:

Gene: Alkhayr_32 Start: 15001, Stop: 16230, Start Num: 1

Candidate Starts for Alkhayr_32:

(Start: 1 @15001 has 31 MA's), (4, 15094), (5, 15097), (7, 15139), (8, 15238), (11, 15271), (13, 15283), (15, 15298), (17, 15325), (18, 15334), (23, 15421), (24, 15430), (34, 15661), (37, 15748), (39, 15799), (40, 15835), (42, 15859), (44, 15907), (45, 15922), (49, 16021), (50, 16024), (55, 16105), (56, 16132), (58, 16147), (59, 16150), (61, 16174), (63, 16204), (64, 16225),

Gene: Ashwin_33 Start: 15011, Stop: 16240, Start Num: 1

Candidate Starts for Ashwin_33:

(Start: 1 @15011 has 31 MA's), (4, 15104), (5, 15107), (7, 15149), (8, 15248), (11, 15281), (13, 15293), (15, 15308), (17, 15335), (18, 15344), (23, 15431), (24, 15440), (34, 15671), (37, 15758), (39, 15809), (40, 15845), (42, 15869), (44, 15917), (45, 15932), (49, 16031), (50, 16034), (55, 16115), (56, 16142), (58, 16157), (59, 16160), (61, 16184), (63, 16214), (64, 16235),

Gene: Blessica_33 Start: 15402, Stop: 16631, Start Num: 1

Candidate Starts for Blessica_33:

(Start: 1 @15402 has 31 MA's), (4, 15495), (5, 15498), (7, 15540), (8, 15639), (11, 15672), (13, 15684), (15, 15699), (17, 15726), (18, 15735), (23, 15822), (24, 15831), (34, 16062), (37, 16149), (39, 16200), (40, 16236), (42, 16260), (44, 16308), (45, 16323), (49, 16422), (50, 16425), (55, 16506), (56, 16533), (58, 16548), (59, 16551), (61, 16575), (63, 16605), (64, 16626),

Gene: Bora_29 Start: 14464, Stop: 15693, Start Num: 1

Candidate Starts for Bora_29:

(Start: 1 @14464 has 31 MA's), (4, 14557), (5, 14560), (7, 14602), (8, 14701), (11, 14734), (13, 14746), (15, 14761), (17, 14788), (18, 14797), (23, 14884), (24, 14893), (34, 15124), (37, 15211), (39, 15262), (40, 15298), (42, 15322), (44, 15370), (45, 15385), (49, 15484), (50, 15487), (55, 15568), (56, 15595), (58, 15610), (59, 15613), (61, 15637), (63, 15667), (64, 15688),

Gene: Catdawg_32 Start: 15091, Stop: 16320, Start Num: 1

Candidate Starts for Catdawg_32:

(Start: 1 @15091 has 31 MA's), (4, 15184), (5, 15187), (7, 15229), (8, 15328), (11, 15361), (13, 15373), (15, 15388), (17, 15415), (18, 15424), (23, 15511), (24, 15520), (34, 15751), (37, 15838), (39, 15889), (40, 15925), (42, 15949), (44, 15997), (45, 16012), (49, 16111), (50, 16114), (55, 16195), (56, 16222), (58, 16237), (59, 16240), (61, 16264), (63, 16294), (64, 16315),

Gene: Corndog_34 Start: 15549, Stop: 16778, Start Num: 1

Candidate Starts for Corndog_34:

(Start: 1 @15549 has 31 MA's), (4, 15642), (5, 15645), (7, 15687), (8, 15786), (11, 15819), (12, 15822), (13, 15831), (15, 15846), (17, 15873), (18, 15882), (23, 15969), (24, 15978), (34, 16209), (37, 16296), (39, 16347), (40, 16383), (42, 16407), (44, 16455), (49, 16569), (50, 16572), (55, 16653), (56, 16680), (58, 16695), (59, 16698), (61, 16722), (63, 16752), (64, 16773),

Gene: Dylan_31 Start: 14816, Stop: 16045, Start Num: 1

Candidate Starts for Dylan_31:

(Start: 1 @14816 has 31 MA's), (4, 14909), (5, 14912), (7, 14954), (8, 15053), (11, 15086), (13, 15098), (15, 15113), (17, 15140), (18, 15149), (23, 15236), (24, 15245), (34, 15476), (37, 15563), (39, 15614), (40, 15650), (42, 15674), (44, 15722), (45, 15737), (49, 15836), (50, 15839), (55, 15920), (56, 15947), (58, 15962), (59, 15965), (61, 15989), (63, 16019), (64, 16040),

Gene: Familton_33 Start: 15095, Stop: 16324, Start Num: 1

Candidate Starts for Familton_33:

(Start: 1 @15095 has 31 MA's), (4, 15188), (5, 15191), (7, 15233), (8, 15332), (11, 15365), (13, 15377), (15, 15392), (17, 15419), (18, 15428), (23, 15515), (24, 15524), (34, 15755), (37, 15842), (39, 15893), (40, 15929), (42, 15953), (44, 16001), (45, 16016), (49, 16115), (50, 16118), (55, 16199), (56, 16226), (58, 16241), (59, 16244), (61, 16268), (63, 16298), (64, 16319),

Gene: Firecracker_32 Start: 14714, Stop: 15943, Start Num: 1

Candidate Starts for Firecracker_32:

(Start: 1 @14714 has 31 MA's), (4, 14807), (5, 14810), (7, 14852), (8, 14951), (11, 14984), (13, 14996), (15, 15011), (17, 15038), (18, 15047), (23, 15134), (24, 15143), (34, 15374), (37, 15461), (39, 15512), (40, 15548), (42, 15572), (44, 15620), (45, 15635), (49, 15734), (50, 15737), (55, 15818), (56, 15845), (58, 15860), (59, 15863), (61, 15887), (63, 15917), (64, 15938),

Gene: FoulBall_32 Start: 15089, Stop: 16318, Start Num: 1

Candidate Starts for FoulBall_32:

(Start: 1 @15089 has 31 MA's), (4, 15182), (5, 15185), (7, 15227), (8, 15326), (11, 15359), (13, 15371), (15, 15386), (17, 15413), (18, 15422), (23, 15509), (24, 15518), (34, 15749), (37, 15836), (39, 15887), (40, 15923), (42, 15947), (44, 15995), (45, 16010), (49, 16109), (50, 16112), (55, 16193), (56, 16220), (58, 16235), (59, 16238), (61, 16262), (63, 16292), (64, 16313),

Gene: Idergollasper_32 Start: 15089, Stop: 16318, Start Num: 1

Candidate Starts for Idergollasper_32:

(Start: 1 @15089 has 31 MA's), (4, 15182), (5, 15185), (7, 15227), (8, 15326), (11, 15359), (13, 15371), (15, 15386), (17, 15413), (18, 15422), (23, 15509), (24, 15518), (34, 15749), (37, 15836), (39, 15887), (40, 15923), (42, 15947), (44, 15995), (45, 16010), (49, 16109), (50, 16112), (55, 16193), (56, 16220), (58, 16235), (59, 16238), (61, 16262), (63, 16292), (64, 16313),

Gene: Imara_30 Start: 14898, Stop: 16127, Start Num: 1

Candidate Starts for Imara_30:

(Start: 1 @14898 has 31 MA's), (4, 14991), (5, 14994), (7, 15036), (8, 15135), (11, 15168), (13, 15180), (15, 15195), (17, 15222), (18, 15231), (23, 15318), (24, 15327), (34, 15558), (37, 15645), (39, 15696), (40, 15732), (42, 15756), (44, 15804), (45, 15819), (49, 15918), (50, 15921), (55, 16002), (56, 16029), (58, 16044), (59, 16047), (61, 16071), (63, 16101), (64, 16122),

Gene: JangDynasty_32 Start: 15184, Stop: 16413, Start Num: 1

Candidate Starts for JangDynasty_32:

(Start: 1 @15184 has 31 MA's), (4, 15277), (5, 15280), (7, 15322), (8, 15421), (11, 15454), (13, 15466), (15, 15481), (17, 15508), (18, 15517), (23, 15604), (24, 15613), (34, 15844), (37, 15931), (39, 15982), (40, 16018), (42, 16042), (44, 16090), (45, 16105), (49, 16204), (50, 16207), (55, 16288), (56, 16315), (58, 16330), (59, 16333), (61, 16357), (63, 16387), (64, 16408),

Gene: KingPhillip3_31 Start: 15089, Stop: 16318, Start Num: 1

Candidate Starts for KingPhillip3_31:

(Start: 1 @15089 has 31 MA's), (4, 15182), (5, 15185), (7, 15227), (8, 15326), (11, 15359), (13, 15371), (15, 15386), (17, 15413), (18, 15422), (23, 15509), (24, 15518), (34, 15749), (37, 15836), (39, 15887), (40, 15923), (42, 15947), (44, 15995), (45, 16010), (49, 16109), (50, 16112), (55, 16193), (56, 16220), (58, 16235), (59, 16238), (61, 16262), (63, 16292), (64, 16313),

Gene: Krili_31 Start: 14817, Stop: 16046, Start Num: 1

Candidate Starts for Krili_31:

(Start: 1 @14817 has 31 MA's), (4, 14910), (5, 14913), (7, 14955), (8, 15054), (11, 15087), (12, 15090), (13, 15099), (15, 15114), (17, 15141), (18, 15150), (23, 15237), (24, 15246), (34, 15477), (37, 15564), (39, 15615), (40, 15651), (42, 15675), (44, 15723), (49, 15837), (50, 15840), (55, 15921), (56, 15948), (58, 15963), (59, 15966), (61, 15990), (63, 16020), (64, 16041),

Gene: MadKillah_33 Start: 15027, Stop: 16256, Start Num: 1

Candidate Starts for MadKillah_33:

(Start: 1 @15027 has 31 MA's), (4, 15120), (5, 15123), (7, 15165), (8, 15264), (11, 15297), (13, 15309), (15, 15324), (17, 15351), (18, 15360), (23, 15447), (24, 15456), (34, 15687), (37, 15774), (39, 15825), (40, 15861), (42, 15885), (44, 15933), (45, 15948), (49, 16047), (50, 16050), (55, 16131), (56, 16158), (58, 16173), (59, 16176), (61, 16200), (63, 16230), (64, 16251),

Gene: MooMoo_3 Start: 1799, Stop: 3073, Start Num: 1

Candidate Starts for MooMoo_3:

(Start: 1 @1799 has 31 MA's), (2, 1817), (3, 1868), (7, 1931), (9, 2042), (10, 2048), (12, 2063), (13, 2072), (14, 2078), (15, 2087), (16, 2105), (18, 2123), (19, 2141), (20, 2150), (21, 2177), (22, 2192), (23, 2210), (24, 2219), (25, 2246), (26, 2258), (27, 2273), (28, 2276), (29, 2282), (30, 2288), (31, 2330), (32, 2417), (33, 2435), (34, 2447), (35, 2474), (36, 2480), (38, 2582), (39, 2585), (40, 2621), (41, 2636), (43, 2681), (46, 2714), (47, 2735), (48, 2750), (49, 2807), (50, 2810), (51, 2819), (52, 2834), (54, 2858), (57, 2930), (60, 2972), (61, 2981), (62, 2990),

Gene: Mori_31 Start: 14688, Stop: 15917, Start Num: 1

Candidate Starts for Mori_31:

(Start: 1 @14688 has 31 MA's), (4, 14781), (5, 14784), (7, 14826), (8, 14925), (11, 14958), (13, 14970), (15, 14985), (17, 15012), (18, 15021), (23, 15108), (24, 15117), (34, 15348), (37, 15435), (39, 15486), (40, 15522), (42, 15546), (44, 15594), (49, 15708), (50, 15711), (55, 15792), (56, 15819), (58, 15834), (59, 15837), (61, 15861), (63, 15891), (64, 15912),

Gene: Murai_32 Start: 14878, Stop: 16107, Start Num: 1

Candidate Starts for Murai_32:

(Start: 1 @14878 has 31 MA's), (4, 14971), (5, 14974), (7, 15016), (8, 15115), (11, 15148), (12, 15151), (13, 15160), (15, 15175), (17, 15202), (18, 15211), (23, 15298), (24, 15307), (34, 15538), (37, 15625), (39, 15676), (40, 15712), (42, 15736), (44, 15784), (49, 15898), (50, 15901), (55, 15982), (56, 16009), (58, 16024), (59, 16027), (61, 16051), (63, 16081), (64, 16102),

Gene: NiebruSaylor_31 Start: 14689, Stop: 15918, Start Num: 1

Candidate Starts for NiebruSaylor_31:

(Start: 1 @14689 has 31 MA's), (4, 14782), (5, 14785), (7, 14827), (8, 14926), (11, 14959), (12, 14962), (13, 14971), (15, 14986), (17, 15013), (18, 15022), (23, 15109), (24, 15118), (34, 15349), (37, 15436), (39, 15487), (40, 15523), (42, 15547), (44, 15595), (49, 15709), (50, 15712), (55, 15793), (56, 15820), (58, 15835), (59, 15838), (61, 15862), (63, 15892), (64, 15913),

Gene: Ryadel_35 Start: 15905, Stop: 17134, Start Num: 1

Candidate Starts for Ryadel_35:

(Start: 1 @15905 has 31 MA's), (4, 15998), (5, 16001), (6, 16025), (7, 16043), (8, 16142), (11, 16175), (13, 16187), (15, 16202), (17, 16229), (18, 16238), (23, 16325), (24, 16334), (34, 16565), (37, 16652), (39, 16703), (40, 16739), (42, 16763), (44, 16811), (45, 16826), (49, 16925), (50, 16928), (55, 17009), (56, 17036), (58, 17051), (59, 17054), (61, 17078), (63, 17108), (64, 17129),

Gene: SchoolBus_32 Start: 15092, Stop: 16321, Start Num: 1

Candidate Starts for SchoolBus_32:

(Start: 1 @15092 has 31 MA's), (4, 15185), (5, 15188), (7, 15230), (8, 15329), (11, 15362), (13, 15374), (15, 15389), (17, 15416), (18, 15425), (23, 15512), (24, 15521), (34, 15752), (37, 15839), (39, 15890), (40, 15926), (42, 15950), (44, 15998), (45, 16013), (49, 16112), (50, 16115), (55, 16196), (56, 16223), (58, 16238), (59, 16241), (61, 16265), (63, 16295), (64, 16316),

Gene: Schuy_33 Start: 15036, Stop: 16265, Start Num: 1

Candidate Starts for Schuy_33:

(Start: 1 @15036 has 31 MA's), (4, 15129), (5, 15132), (7, 15174), (8, 15273), (11, 15306), (12, 15309), (13, 15318), (15, 15333), (17, 15360), (18, 15369), (23, 15456), (24, 15465), (34, 15696), (37, 15783), (39, 15834), (40, 15870), (42, 15894), (44, 15942), (49, 16056), (50, 16059), (55, 16140), (56, 16167), (58, 16182), (59, 16185), (61, 16209), (63, 16239), (64, 16260),

Gene: Shida_32 Start: 14943, Stop: 16172, Start Num: 1

Candidate Starts for Shida_32:

(Start: 1 @14943 has 31 MA's), (4, 15036), (5, 15039), (7, 15081), (8, 15180), (11, 15213), (12, 15216), (13, 15225), (15, 15240), (17, 15267), (18, 15276), (23, 15363), (24, 15372), (34, 15603), (37, 15690), (39, 15741), (40, 15777), (42, 15801), (44, 15849), (49, 15963), (50, 15966), (55, 16047), (56, 16074), (58, 16089), (59, 16092), (61, 16116), (63, 16146), (64, 16167),

Gene: Smooch_34 Start: 16232, Stop: 17461, Start Num: 1

Candidate Starts for Smooch_34:

(Start: 1 @16232 has 31 MA's), (4, 16325), (5, 16328), (7, 16370), (8, 16469), (11, 16502), (13, 16514), (15, 16529), (17, 16556), (18, 16565), (23, 16652), (24, 16661), (34, 16892), (37, 16979), (39, 17030), (40, 17066), (42, 17090), (44, 17138), (49, 17252), (50, 17255), (55, 17336), (56, 17363), (58, 17378), (59, 17381), (61, 17405), (63, 17435), (64, 17456),

Gene: TelAviv_29 Start: 15086, Stop: 16315, Start Num: 1

Candidate Starts for TelAviv_29:

(Start: 1 @15086 has 31 MA's), (4, 15179), (5, 15182), (7, 15224), (8, 15323), (11, 15356), (13, 15368), (15, 15383), (17, 15410), (18, 15419), (23, 15506), (24, 15515), (34, 15746), (37, 15833), (39, 15884), (40, 15920), (42, 15944), (44, 15992), (45, 16007), (49, 16106), (50, 16109), (55, 16190), (56, 16217), (58, 16232), (59, 16235), (61, 16259), (63, 16289), (64, 16310),

Gene: Vagabond_32 Start: 14919, Stop: 16148, Start Num: 1

Candidate Starts for Vagabond_32:

(Start: 1 @14919 has 31 MA's), (4, 15012), (5, 15015), (7, 15057), (8, 15156), (11, 15189), (13, 15201), (15, 15216), (17, 15243), (18, 15252), (23, 15339), (24, 15348), (34, 15579), (37, 15666), (39, 15717), (40, 15753), (42, 15777), (44, 15825), (45, 15840), (49, 15939), (50, 15942), (55, 16023), (56, 16050),

(58, 16065), (59, 16068), (61, 16092), (63, 16122), (64, 16143),

Gene: Vorrps_31 Start: 14689, Stop: 15918, Start Num: 1

Candidate Starts for Vorrps_31:

(Start: 1 @14689 has 31 MA's), (4, 14782), (5, 14785), (7, 14827), (8, 14926), (11, 14959), (13, 14971), (15, 14986), (17, 15013), (18, 15022), (23, 15109), (24, 15118), (34, 15349), (37, 15436), (39, 15487), (40, 15523), (42, 15547), (44, 15595), (49, 15709), (50, 15712), (55, 15793), (56, 15820), (58, 15835), (59, 15838), (61, 15862), (63, 15892), (64, 15913),

Gene: Wildflower_32 Start: 14675, Stop: 15904, Start Num: 1

Candidate Starts for Wildflower_32:

(Start: 1 @14675 has 31 MA's), (4, 14768), (5, 14771), (7, 14813), (8, 14912), (11, 14945), (13, 14957), (15, 14972), (17, 14999), (18, 15008), (23, 15095), (24, 15104), (34, 15335), (37, 15422), (39, 15473), (40, 15509), (42, 15533), (44, 15581), (49, 15695), (50, 15698), (53, 15740), (55, 15779), (56, 15806), (58, 15821), (59, 15824), (61, 15848), (63, 15878), (64, 15899),

Gene: Winget_33 Start: 15358, Stop: 16587, Start Num: 1

Candidate Starts for Winget_33:

(Start: 1 @15358 has 31 MA's), (4, 15451), (5, 15454), (7, 15496), (8, 15595), (11, 15628), (13, 15640), (15, 15655), (17, 15682), (18, 15691), (23, 15778), (24, 15787), (34, 16018), (37, 16105), (39, 16156), (40, 16192), (42, 16216), (44, 16264), (45, 16279), (49, 16378), (50, 16381), (55, 16462), (56, 16489), (58, 16504), (59, 16507), (61, 16531), (63, 16561), (64, 16582),

Gene: Wogge42_31 Start: 14997, Stop: 16226, Start Num: 1

Candidate Starts for Wogge42_31:

(Start: 1 @14997 has 31 MA's), (4, 15090), (5, 15093), (7, 15135), (8, 15234), (11, 15267), (13, 15279), (15, 15294), (17, 15321), (18, 15330), (23, 15417), (24, 15426), (34, 15657), (37, 15744), (39, 15795), (40, 15831), (42, 15855), (44, 15903), (45, 15918), (49, 16017), (50, 16020), (55, 16101), (56, 16128), (58, 16143), (59, 16146), (61, 16170), (63, 16200), (64, 16221),

Gene: YoyoKar_30 Start: 14642, Stop: 15871, Start Num: 1

Candidate Starts for YoyoKar_30:

(Start: 1 @14642 has 31 MA's), (4, 14735), (5, 14738), (7, 14780), (8, 14879), (11, 14912), (13, 14924), (15, 14939), (17, 14966), (18, 14975), (23, 15062), (24, 15071), (34, 15302), (37, 15389), (39, 15440), (40, 15476), (42, 15500), (44, 15548), (45, 15563), (49, 15662), (50, 15665), (55, 15746), (56, 15773), (58, 15788), (59, 15791), (61, 15815), (63, 15845), (64, 15866),

Gene: YungJamal_35 Start: 15421, Stop: 16650, Start Num: 1

Candidate Starts for YungJamal_35:

(Start: 1 @15421 has 31 MA's), (4, 15514), (5, 15517), (7, 15559), (8, 15658), (11, 15691), (13, 15703), (15, 15718), (17, 15745), (18, 15754), (23, 15841), (24, 15850), (34, 16081), (37, 16168), (39, 16219), (40, 16255), (42, 16279), (44, 16327), (45, 16342), (49, 16441), (50, 16444), (55, 16525), (56, 16552), (58, 16567), (59, 16570), (61, 16594), (63, 16624), (64, 16645),

Gene: Zakhe101_32 Start: 14820, Stop: 16049, Start Num: 1

Candidate Starts for Zakhe101_32:

(Start: 1 @14820 has 31 MA's), (4, 14913), (5, 14916), (7, 14958), (8, 15057), (11, 15090), (13, 15102), (15, 15117), (17, 15144), (18, 15153), (23, 15240), (24, 15249), (34, 15480), (37, 15567), (39, 15618), (40, 15654), (42, 15678), (44, 15726), (45, 15741), (49, 15840), (50, 15843), (55, 15924), (56, 15951), (58, 15966), (59, 15969), (61, 15993), (63, 16023), (64, 16044),

Gene: Zebo_32 Start: 15092, Stop: 16321, Start Num: 1

Candidate Starts for Zebo_32:

(Start: 1 @15092 has 31 MA's), (4, 15185), (5, 15188), (7, 15230), (8, 15329), (11, 15362), (13, 15374), (15, 15389), (17, 15416), (18, 15425), (23, 15512), (24, 15521), (34, 15752), (37, 15839), (39, 15890), (40, 15926), (42, 15950), (44, 15998), (45, 16013), (49, 16112), (50, 16115), (55, 16196), (56, 16223), (58, 16238), (59, 16241), (61, 16265), (63, 16295), (64, 16316),