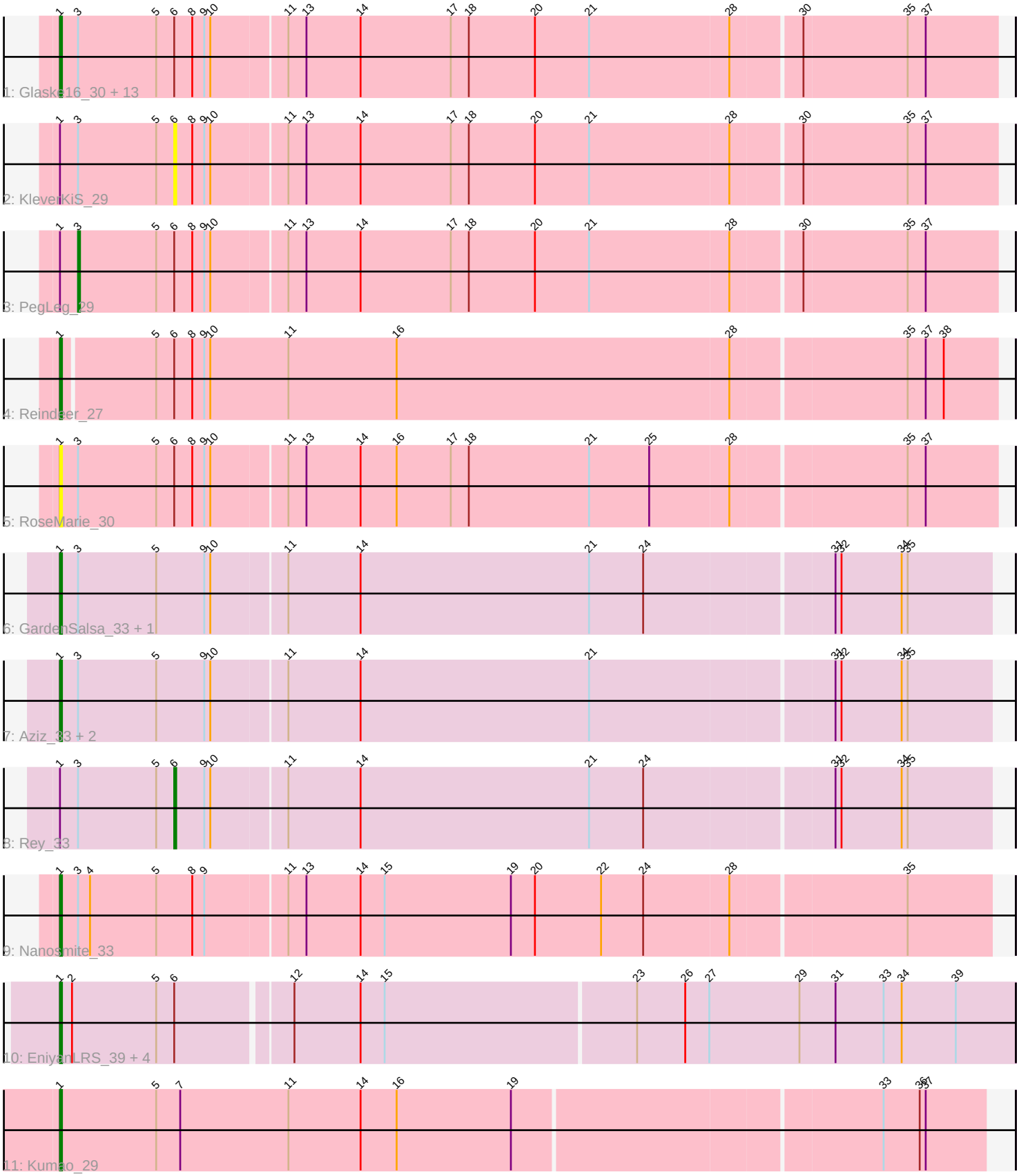
Pham 288104


1: Glaske16_30 + 13
2: KleverKiS_29
3: PegLeg_29
4: Reindeer_27
5: RoseMarie_30
6: GardenSalsa_33 + 1
7: Aziz_33 + 2
8: Rey_33
9: Nanosmite_33
10: EniyanLRS_39 + 4
11: Kumao_29

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 288104 Report

This analysis was run 03/28/26 on database version 641.

Pham number 288104 has 31 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Glaske16_30, TpudiCK_30, SlimJimmy_28, LilhomieP_28, FreakyGoo_30, Dulcita_30, TyDawg_29, Auspice_29, Bricole_29, IPhane7_29, Diminimus_30, Skinny_30, Bongo_29, Izel_30
• Track 2 : KleverKiS_29
• Track 3 : PegLeg_29
• Track 4 : Reindeer_27
• Track 5 : RoseMarie_30
• Track 6 : GardenSalsa_33, MrMagoo_33
• Track 7 : Aziz_33, Estes_34, GenevaB15_33
• Track 8 : Rey_33
• Track 9 : Nanosmite_33
• Track 10 : EniyanLRS_39, Wildcat_42, Azrael100_41, Cosmo_42, MaryV_42
• Track 11 : Kumao_29

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 26 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_29, Aziz_33, Azrael100_41, Bongo_29, Bricole_29, Cosmo_42, Diminimus_30, Dulcita_30, EniyanLRS_39, Estes_34, FreakyGoo_30, GardenSalsa_33, GenevaB15_33, Glaske16_30, IPhane7_29, Izel_30, Kumao_29, LilhomieP_28, MaryV_42, MrMagoo_33, Nanosmite_33, Reindeer_27, RoseMarie_30, Skinny_30, SlimJimmy_28, TpudiCK_30, TyDawg_29, Wildcat_42,

Genes that have the "Most Annotated" start but do not call it:
• KleverKiS_29, PegLeg_29, Rey_33,

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

Summary by start number:

Start 1:
• Found in 31 of 31 (100.0%) of genes in pham
• Manual Annotations of this start: 26 of 28
• Called 90.3% of time when present
• Phage (with cluster) where this start called: Auspice_29 (M1), Aziz_33 (M2), Azrael100_41 (V), Bongo_29 (M1), Bricole_29 (M1), Cosmo_42 (V), Diminimus_30 (M1), Dulcita_30 (M1), EniyanLRS_39 (V), Estes_34 (M2), FreakyGoo_30 (M1), GardenSalsa_33 (M2), GenevaB15_33 (M2), Glaske16_30 (M1), IPhane7_29 (M1), Izel_30 (M1), Kumao_29 (singleton), LilhomieP_28 (M1), MaryV_42 (V), MrMagoo_33 (M2), Nanosmite_33 (M3), Reindeer_27 (M1), RoseMarie_30 (M1), Skinny_30 (M1), SlimJimmy_28 (M1), TpudiCK_30 (M1), TyDawg_29 (M1), Wildcat_42 (V),

Start 3:
• Found in 24 of 31 (77.4%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 4.2% of time when present
• Phage (with cluster) where this start called: PegLeg_29 (M1),

Start 6:
• Found in 24 of 31 (77.4%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 8.3% of time when present
• Phage (with cluster) where this start called: KleverKiS_29 (M1), Rey_33 (M2),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, M2, M1, M3, V,

Info for manual annotations of cluster M1:
•Start number 1 was manually annotated 14 times for cluster M1.
•Start number 3 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster M2:
•Start number 1 was manually annotated 5 times for cluster M2.
•Start number 6 was manually annotated 1 time for cluster M2.

Info for manual annotations of cluster M3:
•Start number 1 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 1 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Auspice_29 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for Auspice_29:
(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: Aziz_33 Start: 24749, Stop: 25204, Start Num: 1

Candidate Starts for Aziz_33:
(Start: 1 @24749 has 26 MA's), (Start: 3 @24758 has 1 MA's), (5, 24797), (9, 24821), (10, 24824), (11, 24860), (14, 24896), (21, 25010), (31, 25127), (32, 25130), (34, 25160), (35, 25163),

Gene: Azrael100_41 Start: 27872, Stop: 28339, Start Num: 1
Candidate Starts for Azrael100_41:
(Start: 1 @27872 has 26 MA's), (2, 27878), (5, 27920), (Start: 6 @27929 has 1 MA's), (12, 27983), (14, 28016), (15, 28028), (23, 28151), (26, 28175), (27, 28187), (29, 28232), (31, 28250), (33, 28274), (34, 28283), (39, 28310),

Gene: Bongo_29 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for Bongo_29:
(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: Bricole_29 Start: 24144, Stop: 24602, Start Num: 1
Candidate Starts for Bricole_29:
(Start: 1 @24144 has 26 MA's), (Start: 3 @24153 has 1 MA's), (5, 24192), (Start: 6 @24201 has 1 MA's), (8, 24210), (9, 24216), (10, 24219), (11, 24255), (13, 24264), (14, 24291), (17, 24336), (18, 24345), (20, 24378), (21, 24405), (28, 24474), (30, 24507), (35, 24558), (37, 24567),

Gene: Cosmo_42 Start: 27879, Stop: 28346, Start Num: 1
Candidate Starts for Cosmo_42:
(Start: 1 @27879 has 26 MA's), (2, 27885), (5, 27927), (Start: 6 @27936 has 1 MA's), (12, 27990), (14, 28023), (15, 28035), (23, 28158), (26, 28182), (27, 28194), (29, 28239), (31, 28257), (33, 28281), (34, 28290), (39, 28317),

Gene: Diminimus_30 Start: 24157, Stop: 24615, Start Num: 1
Candidate Starts for Diminimus_30:
(Start: 1 @24157 has 26 MA's), (Start: 3 @24166 has 1 MA's), (5, 24205), (Start: 6 @24214 has 1 MA's), (8, 24223), (9, 24229), (10, 24232), (11, 24268), (13, 24277), (14, 24304), (17, 24349), (18, 24358), (20, 24391), (21, 24418), (28, 24487), (30, 24520), (35, 24571), (37, 24580),

Gene: Dulcita_30 Start: 24157, Stop: 24615, Start Num: 1
Candidate Starts for Dulcita_30:
(Start: 1 @24157 has 26 MA's), (Start: 3 @24166 has 1 MA's), (5, 24205), (Start: 6 @24214 has 1 MA's), (8, 24223), (9, 24229), (10, 24232), (11, 24268), (13, 24277), (14, 24304), (17, 24349), (18, 24358), (20, 24391), (21, 24418), (28, 24487), (30, 24520), (35, 24571), (37, 24580),

Gene: EniyanLRS_39 Start: 27577, Stop: 28044, Start Num: 1
Candidate Starts for EniyanLRS_39:
(Start: 1 @27577 has 26 MA's), (2, 27583), (5, 27625), (Start: 6 @27634 has 1 MA's), (12, 27688), (14, 27721), (15, 27733), (23, 27856), (26, 27880), (27, 27892), (29, 27937), (31, 27955), (33, 27979), (34, 27988), (39, 28015),

Gene: Estes_34 Start: 24880, Stop: 25335, Start Num: 1
Candidate Starts for Estes_34:
(Start: 1 @24880 has 26 MA's), (Start: 3 @24889 has 1 MA's), (5, 24928), (9, 24952), (10, 24955), (11, 24991), (14, 25027), (21, 25141), (31, 25258), (32, 25261), (34, 25291), (35, 25294),

Gene: FreakyGoo_30 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for FreakyGoo_30:

(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: GardenSalsa_33 Start: 24704, Stop: 25159, Start Num: 1
Candidate Starts for GardenSalsa_33:
(Start: 1 @24704 has 26 MA's), (Start: 3 @24713 has 1 MA's), (5, 24752), (9, 24776), (10, 24779), (11, 24815), (14, 24851), (21, 24965), (24, 24992), (31, 25082), (32, 25085), (34, 25115), (35, 25118),

Gene: GenevaB15_33 Start: 24749, Stop: 25204, Start Num: 1
Candidate Starts for GenevaB15_33:
(Start: 1 @24749 has 26 MA's), (Start: 3 @24758 has 1 MA's), (5, 24797), (9, 24821), (10, 24824), (11, 24860), (14, 24896), (21, 25010), (31, 25127), (32, 25130), (34, 25160), (35, 25163),

Gene: Glaske16_30 Start: 24157, Stop: 24615, Start Num: 1
Candidate Starts for Glaske16_30:
(Start: 1 @24157 has 26 MA's), (Start: 3 @24166 has 1 MA's), (5, 24205), (Start: 6 @24214 has 1 MA's), (8, 24223), (9, 24229), (10, 24232), (11, 24268), (13, 24277), (14, 24304), (17, 24349), (18, 24358), (20, 24391), (21, 24418), (28, 24487), (30, 24520), (35, 24571), (37, 24580),

Gene: IPhane7_29 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for IPhane7_29:
(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: Izel_30 Start: 24157, Stop: 24615, Start Num: 1
Candidate Starts for Izel_30:
(Start: 1 @24157 has 26 MA's), (Start: 3 @24166 has 1 MA's), (5, 24205), (Start: 6 @24214 has 1 MA's), (8, 24223), (9, 24229), (10, 24232), (11, 24268), (13, 24277), (14, 24304), (17, 24349), (18, 24358), (20, 24391), (21, 24418), (28, 24487), (30, 24520), (35, 24571), (37, 24580),

Gene: KleverKiS_29 Start: 24198, Stop: 24599, Start Num: 6
Candidate Starts for KleverKiS_29:
(Start: 1 @24141 has 26 MA's), (Start: 3 @24150 has 1 MA's), (5, 24189), (Start: 6 @24198 has 1 MA's), (8, 24207), (9, 24213), (10, 24216), (11, 24252), (13, 24261), (14, 24288), (17, 24333), (18, 24342), (20, 24375), (21, 24402), (28, 24471), (30, 24504), (35, 24555), (37, 24564),

Gene: Kumao_29 Start: 23245, Stop: 23697, Start Num: 1
Candidate Starts for Kumao_29:
(Start: 1 @23245 has 26 MA's), (5, 23293), (7, 23305), (11, 23359), (14, 23395), (16, 23413), (19, 23470), (33, 23647), (36, 23665), (37, 23668),

Gene: LilhomieP_28 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for LilhomieP_28:
(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: MaryV_42 Start: 27864, Stop: 28331, Start Num: 1
Candidate Starts for MaryV_42:
(Start: 1 @27864 has 26 MA's), (2, 27870), (5, 27912), (Start: 6 @27921 has 1 MA's), (12, 27975), (14, 28008), (15, 28020), (23, 28143), (26, 28167), (27, 28179), (29, 28224), (31, 28242), (33, 28266), (34,

28275), (39, 28302),

Gene: MrMagoo_33 Start: 24704, Stop: 25159, Start Num: 1
Candidate Starts for MrMagoo_33:
(Start: 1 @24704 has 26 MA's), (Start: 3 @24713 has 1 MA's), (5, 24752), (9, 24776), (10, 24779), (11, 24815), (14, 24851), (21, 24965), (24, 24992), (31, 25082), (32, 25085), (34, 25115), (35, 25118),

Gene: Nanosmite_33 Start: 24574, Stop: 25029, Start Num: 1
Candidate Starts for Nanosmite_33:
(Start: 1 @24574 has 26 MA's), (Start: 3 @24583 has 1 MA's), (4, 24589), (5, 24622), (8, 24640), (9, 24646), (11, 24685), (13, 24694), (14, 24721), (15, 24733), (19, 24796), (20, 24808), (22, 24841), (24, 24862), (28, 24904), (35, 24988),

Gene: PegLeg_29 Start: 24166, Stop: 24615, Start Num: 3
Candidate Starts for PegLeg_29:
(Start: 1 @24157 has 26 MA's), (Start: 3 @24166 has 1 MA's), (5, 24205), (Start: 6 @24214 has 1 MA's), (8, 24223), (9, 24229), (10, 24232), (11, 24268), (13, 24277), (14, 24304), (17, 24349), (18, 24358), (20, 24391), (21, 24418), (28, 24487), (30, 24520), (35, 24571), (37, 24580),

Gene: Reindeer_27 Start: 23982, Stop: 24440, Start Num: 1
Candidate Starts for Reindeer_27:
(Start: 1 @23982 has 26 MA's), (5, 24027), (Start: 6 @24036 has 1 MA's), (8, 24045), (9, 24051), (10, 24054), (11, 24093), (16, 24147), (28, 24312), (35, 24396), (37, 24405), (38, 24414),

Gene: Rey_33 Start: 24993, Stop: 25391, Start Num: 6
Candidate Starts for Rey_33:
(Start: 1 @24936 has 26 MA's), (Start: 3 @24945 has 1 MA's), (5, 24984), (Start: 6 @24993 has 1 MA's), (9, 25008), (10, 25011), (11, 25047), (14, 25083), (21, 25197), (24, 25224), (31, 25314), (32, 25317), (34, 25347), (35, 25350),

Gene: RoseMarie_30 Start: 26020, Stop: 26478, Start Num: 1
Candidate Starts for RoseMarie_30:
(Start: 1 @26020 has 26 MA's), (Start: 3 @26029 has 1 MA's), (5, 26068), (Start: 6 @26077 has 1 MA's), (8, 26086), (9, 26092), (10, 26095), (11, 26131), (13, 26140), (14, 26167), (16, 26185), (17, 26212), (18, 26221), (21, 26281), (25, 26311), (28, 26350), (35, 26434), (37, 26443),

Gene: Skinny_30 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for Skinny_30:
(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: SlimJimmy_28 Start: 24144, Stop: 24602, Start Num: 1
Candidate Starts for SlimJimmy_28:
(Start: 1 @24144 has 26 MA's), (Start: 3 @24153 has 1 MA's), (5, 24192), (Start: 6 @24201 has 1 MA's), (8, 24210), (9, 24216), (10, 24219), (11, 24255), (13, 24264), (14, 24291), (17, 24336), (18, 24345), (20, 24378), (21, 24405), (28, 24474), (30, 24507), (35, 24558), (37, 24567),

Gene: TpudiCK_30 Start: 24157, Stop: 24615, Start Num: 1
Candidate Starts for TpudiCK_30:
(Start: 1 @24157 has 26 MA's), (Start: 3 @24166 has 1 MA's), (5, 24205), (Start: 6 @24214 has 1 MA's), (8, 24223), (9, 24229), (10, 24232), (11, 24268), (13, 24277), (14, 24304), (17, 24349), (18, 24358), (20, 24391), (21, 24418), (28, 24487), (30, 24520), (35, 24571), (37, 24580),

Gene: TyDawg_29 Start: 24158, Stop: 24616, Start Num: 1
Candidate Starts for TyDawg_29:
(Start: 1 @24158 has 26 MA's), (Start: 3 @24167 has 1 MA's), (5, 24206), (Start: 6 @24215 has 1 MA's), (8, 24224), (9, 24230), (10, 24233), (11, 24269), (13, 24278), (14, 24305), (17, 24350), (18, 24359), (20, 24392), (21, 24419), (28, 24488), (30, 24521), (35, 24572), (37, 24581),

Gene: Wildcat_42 Start: 27874, Stop: 28341, Start Num: 1
Candidate Starts for Wildcat_42:
(Start: 1 @27874 has 26 MA's), (2, 27880), (5, 27922), (Start: 6 @27931 has 1 MA's), (12, 27985), (14, 28018), (15, 28030), (23, 28153), (26, 28177), (27, 28189), (29, 28234), (31, 28252), (33, 28276), (34, 28285), (39, 28312),