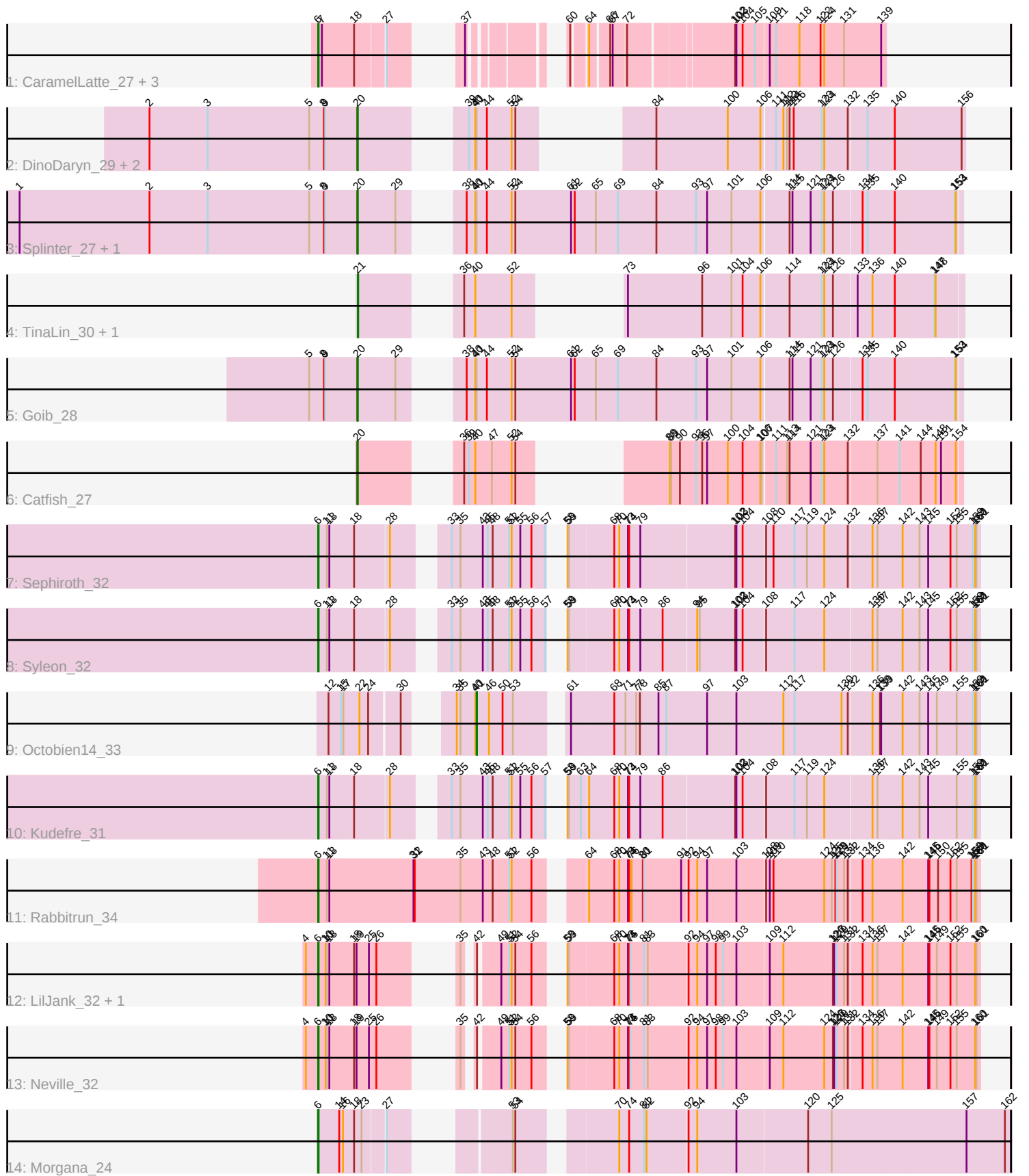


Pham 331227



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 331227 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331227 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : CaramelLatte_27, ChocoMunchkin_27, CanesSauce_27, SteamedHams_29
- Track 2 : DinoDaryn_29, TZGordon_29, Huffy_29
- Track 3 : Splinter_27, Vendetta_27
- Track 4 : TinaLin_30, Banquo_31
- Track 5 : Goib_28
- Track 6 : Catfish_27
- Track 7 : Sephiroth_32
- Track 8 : Syleon_32
- Track 9 : Octobien14_33
- Track 10 : Kudefre_31
- Track 11 : Rabbitrun_34
- Track 12 : LilJank_32, Trax_32
- Track 13 : Neville_32
- Track 14 : Morgana_24

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

The start number called the most often in the published annotations is 6, it was called in 9 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CanesSauce_27, CaramelLatte_27, ChocoMunchkin_27, Kudefre_31, LilJank_32, Morgana_24, Neville_32, Rabbitrun_34, Sephiroth_32, SteamedHams_29, Syleon_32, Trax_32,

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

-

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

- Banquo_31, Catfish_27, DinoDaryn_29, Goib_28, Huffy_29, Octobien14_33, Splinter_27, TZGordon_29, TinaLin_30, Vendetta_27,

Summary by start number:

Start 6:

- Found in 12 of 22 (54.5%) of genes in pham
- Manual Annotations of this start: 9 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CanesSauce_27 (CT), CaramelLatte_27 (CT), ChocoMunchkin_27 (CT), Kudrefre_31 (DU1), LilJank_32 (DU2), Morgana_24 (DZ), Neville_32 (DU2), Rabbitrun_34 (DU2), Sephiroth_32 (DU1), SteamedHams_29 (CT), Syleon_32 (DU1), Trax_32 (DU2),

Start 20:

- Found in 7 of 22 (31.8%) of genes in pham
- Manual Annotations of this start: 7 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Catfish_27 (CU5), DinoDaryn_29 (CU1), Goib_28 (CU1), Huffy_29 (CU1), Splinter_27 (CU1), TZGordon_29 (CU1), Vendetta_27 (CU1),

Start 21:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_31 (CU1), TinaLin_30 (CU1),

Start 41:

- Found in 7 of 22 (31.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Octobien14_33 (DU1),

Summary by clusters:

There are 6 clusters represented in this pham: CU5, CU1, DZ, DU1, DU2, CT,

Info for manual annotations of cluster CT:

- Start number 6 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CU1:

- Start number 20 was manually annotated 6 times for cluster CU1.
- Start number 21 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU5:

- Start number 20 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DU1:

- Start number 6 was manually annotated 3 times for cluster DU1.
- Start number 41 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 6 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster DZ:

- Start number 6 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: Banquo_31 Start: 22005, Stop: 23108, Start Num: 21

Candidate Starts for Banquo_31:

(Start: 21 @22005 has 2 MA's), (36, 22155), (40, 22182), (52, 22269), (73, 22332), (96, 22506), (101, 22575), (104, 22602), (106, 22644), (114, 22707), (123, 22779), (124, 22785), (126, 22806), (133, 22860), (136, 22896), (140, 22950), (147, 23046), (148, 23049),

Gene: CanesSauce_27 Start: 21648, Stop: 22691, Start Num: 6

Candidate Starts for CanesSauce_27:

(Start: 6 @21648 has 9 MA's), (7, 21657), (18, 21729), (27, 21795), (37, 21867), (60, 22014), (64, 22041), (66, 22080), (67, 22086), (72, 22116), (102, 22341), (103, 22344), (104, 22359), (105, 22389), (109, 22419), (111, 22434), (118, 22491), (122, 22539), (124, 22548), (131, 22596), (139, 22680),

Gene: CaramelLatte_27 Start: 21648, Stop: 22691, Start Num: 6

Candidate Starts for CaramelLatte_27:

(Start: 6 @21648 has 9 MA's), (7, 21657), (18, 21729), (27, 21795), (37, 21867), (60, 22014), (64, 22041), (66, 22080), (67, 22086), (72, 22116), (102, 22341), (103, 22344), (104, 22359), (105, 22389), (109, 22419), (111, 22434), (118, 22491), (122, 22539), (124, 22548), (131, 22596), (139, 22680),

Gene: Catfish_27 Start: 22670, Stop: 23770, Start Num: 20

Candidate Starts for Catfish_27:

(Start: 20 @22670 has 7 MA's), (36, 22820), (39, 22832), (40, 22847), (47, 22886), (52, 22934), (54, 22943), (88, 23093), (89, 23096), (90, 23117), (93, 23156), (96, 23171), (97, 23183), (100, 23231), (104, 23267), (106, 23309), (107, 23312), (111, 23339), (113, 23366), (114, 23372), (121, 23417), (123, 23444), (124, 23450), (132, 23507), (137, 23573), (141, 23627), (144, 23678), (148, 23714), (151, 23723), (154, 23759),

Gene: ChocoMunchkin_27 Start: 21648, Stop: 22691, Start Num: 6

Candidate Starts for ChocoMunchkin_27:

(Start: 6 @21648 has 9 MA's), (7, 21657), (18, 21729), (27, 21795), (37, 21867), (60, 22014), (64, 22041), (66, 22080), (67, 22086), (72, 22116), (102, 22341), (103, 22344), (104, 22359), (105, 22389), (109, 22419), (111, 22434), (118, 22491), (122, 22539), (124, 22548), (131, 22596), (139, 22680),

Gene: DinoDaryn_29 Start: 20868, Stop: 21998, Start Num: 20

Candidate Starts for DinoDaryn_29:

(2, 20364), (3, 20505), (5, 20751), (8, 20787), (9, 20790), (Start: 20 @20868 has 7 MA's), (39, 21030), (40, 21045), (Start: 41 @21048 has 1 MA's), (44, 21072), (52, 21132), (54, 21141), (84, 21273), (100, 21444), (106, 21522), (111, 21552), (112, 21570), (113, 21579), (114, 21585), (116, 21591), (123, 21657), (124, 21663), (132, 21720), (135, 21762), (140, 21828), (156, 21990),

Gene: Goib_28 Start: 20652, Stop: 21974, Start Num: 20

Candidate Starts for Goib_28:

(5, 20535), (8, 20571), (9, 20574), (Start: 20 @20652 has 7 MA's), (29, 20742), (38, 20808), (40, 20829), (Start: 41 @20832 has 1 MA's), (44, 20856), (52, 20916), (54, 20925), (61, 21060), (62, 21069), (65, 21120), (69, 21174), (84, 21264), (93, 21360), (97, 21387), (101, 21444), (106, 21513), (114, 21576), (115, 21579), (121, 21621), (123, 21648), (124, 21654), (126, 21675), (134, 21741), (135, 21753), (140, 21819), (153, 21960), (154, 21963),

Gene: Huffy_29 Start: 20868, Stop: 21998, Start Num: 20

Candidate Starts for Huffy_29:

(2, 20364), (3, 20505), (5, 20751), (8, 20787), (9, 20790), (Start: 20 @20868 has 7 MA's), (39, 21030), (40, 21045), (Start: 41 @21048 has 1 MA's), (44, 21072), (52, 21132), (54, 21141), (84, 21273), (100, 21444), (106, 21522), (111, 21552), (112, 21570), (113, 21579), (114, 21585), (116, 21591), (123, 21657), (124, 21663), (132, 21720), (135, 21762), (140, 21828), (156, 21990),

Gene: Kudefre_31 Start: 26003, Stop: 27445, Start Num: 6

Candidate Starts for Kudefre_31:

(Start: 6 @26003 has 9 MA's), (11, 26024), (13, 26030), (18, 26084), (28, 26165), (33, 26258), (35, 26279), (43, 26333), (45, 26345), (48, 26357), (51, 26396), (52, 26402), (55, 26423), (56, 26450), (57, 26480), (58, 26483), (59, 26486), (63, 26513), (64, 26528), (68, 26585), (70, 26597), (73, 26618), (74, 26621), (79, 26648), (86, 26702), (102, 26870), (103, 26873), (104, 26888), (108, 26939), (117, 27008), (119, 27038), (124, 27077), (136, 27188), (137, 27200), (142, 27260), (143, 27299), (145, 27320), (155, 27389), (159, 27428), (160, 27434), (161, 27437),

Gene: LilJank_32 Start: 27770, Stop: 29125, Start Num: 6

Candidate Starts for LilJank_32:

(4, 27740), (Start: 6 @27770 has 9 MA's), (10, 27788), (11, 27791), (13, 27797), (18, 27851), (19, 27857), (25, 27887), (26, 27905), (35, 27998), (42, 28013), (49, 28058), (51, 28076), (52, 28082), (54, 28091), (56, 28130), (58, 28163), (59, 28166), (68, 28265), (70, 28277), (73, 28298), (74, 28301), (75, 28304), (81, 28337), (83, 28346), (92, 28439), (94, 28460), (97, 28484), (98, 28505), (99, 28523), (103, 28553), (109, 28628), (112, 28661), (126, 28778), (127, 28781), (129, 28787), (131, 28805), (132, 28814), (134, 28844), (136, 28868), (137, 28880), (142, 28940), (145, 29000), (146, 29003), (149, 29021), (152, 29054), (155, 29069), (160, 29114), (161, 29117),

Gene: Morgana_24 Start: 21426, Stop: 22886, Start Num: 6

Candidate Starts for Morgana_24:

(Start: 6 @21426 has 9 MA's), (14, 21477), (16, 21486), (18, 21513), (23, 21531), (27, 21579), (53, 21759), (54, 21765), (70, 21954), (74, 21978), (81, 22014), (82, 22020), (92, 22116), (94, 22137), (103, 22230), (120, 22398), (125, 22455), (157, 22779), (162, 22872),

Gene: Neville_32 Start: 27410, Stop: 28765, Start Num: 6

Candidate Starts for Neville_32:

(4, 27380), (Start: 6 @27410 has 9 MA's), (10, 27428), (11, 27431), (13, 27437), (18, 27491), (19, 27497), (25, 27527), (26, 27545), (35, 27638), (42, 27653), (49, 27698), (51, 27716), (52, 27722), (54, 27731), (56, 27770), (58, 27803), (59, 27806), (68, 27905), (70, 27917), (73, 27938), (74, 27941), (75, 27944), (81, 27977), (83, 27986), (92, 28079), (94, 28100), (97, 28124), (98, 28145), (99, 28163), (103, 28193), (109, 28268), (112, 28301), (124, 28397), (126, 28418), (127, 28421), (129, 28427), (131, 28445), (132, 28454), (134, 28484), (136, 28508), (137, 28520), (142, 28580), (145, 28640), (146, 28643), (149, 28661), (152, 28694), (155, 28709), (160, 28754), (161, 28757),

Gene: Octobien14_33 Start: 26995, Stop: 28125, Start Num: 41

Candidate Starts for Octobien14_33:

(12, 26731), (15, 26761), (17, 26764), (22, 26800), (24, 26821), (30, 26887), (34, 26947), (35, 26956), (40, 26992), (Start: 41 @26995 has 1 MA's), (46, 27022), (50, 27052), (53, 27076), (61, 27163), (68, 27259), (71, 27286), (77, 27310), (78, 27319), (85, 27361), (87, 27379), (97, 27478), (103, 27547), (112, 27661), (117, 27688), (130, 27799), (132, 27814), (136, 27868), (138, 27886), (139, 27889), (142, 27940), (143, 27979), (145, 28000), (149, 28021), (155, 28069), (159, 28108), (160, 28114), (161, 28117),

Gene: Rabbitrun_34 Start: 27724, Stop: 29229, Start Num: 6

Candidate Starts for Rabbitrun_34:

(Start: 6 @27724 has 9 MA's), (11, 27745), (13, 27751), (31, 27949), (32, 27952), (35, 28063), (43, 28117), (48, 28141), (51, 28180), (52, 28186), (56, 28234), (64, 28312), (68, 28369), (70, 28381), (73, 28402), (74, 28405), (76, 28411), (80, 28438), (81, 28441), (91, 28531), (92, 28543), (94, 28564), (97, 28588), (103, 28657), (108, 28723), (109, 28732), (110, 28741), (124, 28861), (125, 28879), (128, 28888), (129, 28891), (131, 28909), (132, 28918), (134, 28948), (136, 28972), (142, 29044), (145, 29104), (146, 29107), (150, 29128), (152, 29158), (155, 29173), (158, 29209), (159, 29212), (160, 29218), (161, 29221),

Gene: Sephiroth_32 Start: 26174, Stop: 27616, Start Num: 6

Candidate Starts for Sephiroth_32:

(Start: 6 @26174 has 9 MA's), (11, 26195), (13, 26201), (18, 26255), (28, 26336), (33, 26429), (35, 26450), (43, 26504), (45, 26516), (48, 26528), (51, 26567), (52, 26573), (55, 26594), (56, 26621), (57, 26651), (58, 26654), (59, 26657), (68, 26756), (70, 26768), (73, 26789), (74, 26792), (79, 26819), (102, 27041), (103, 27044), (104, 27059), (108, 27110), (110, 27128), (117, 27179), (119, 27209), (124, 27248), (132, 27305), (136, 27359), (137, 27371), (142, 27431), (143, 27470), (145, 27491), (152, 27545), (155, 27560), (159, 27599), (160, 27605), (161, 27608),

Gene: Splinter_27 Start: 20652, Stop: 21974, Start Num: 20

Candidate Starts for Splinter_27:

(1, 19833), (2, 20148), (3, 20289), (5, 20535), (8, 20571), (9, 20574), (Start: 20 @20652 has 7 MA's), (29, 20742), (38, 20808), (40, 20829), (Start: 41 @20832 has 1 MA's), (44, 20856), (52, 20916), (54, 20925), (61, 21060), (62, 21069), (65, 21120), (69, 21174), (84, 21264), (93, 21360), (97, 21387), (101, 21444), (106, 21513), (114, 21576), (115, 21579), (121, 21621), (123, 21648), (124, 21654), (126, 21675), (134, 21741), (135, 21753), (140, 21819), (153, 21960), (154, 21963),

Gene: SteamedHams_29 Start: 21624, Stop: 22667, Start Num: 6

Candidate Starts for SteamedHams_29:

(Start: 6 @21624 has 9 MA's), (7, 21633), (18, 21705), (27, 21771), (37, 21843), (60, 21990), (64, 22017), (66, 22056), (67, 22062), (72, 22092), (102, 22317), (103, 22320), (104, 22335), (105, 22365), (109, 22395), (111, 22410), (118, 22467), (122, 22515), (124, 22524), (131, 22572), (139, 22656),

Gene: Syleon_32 Start: 26096, Stop: 27538, Start Num: 6

Candidate Starts for Syleon_32:

(Start: 6 @26096 has 9 MA's), (11, 26117), (13, 26123), (18, 26177), (28, 26258), (33, 26351), (35, 26372), (43, 26426), (45, 26438), (48, 26450), (51, 26489), (52, 26495), (55, 26516), (56, 26543), (57, 26573), (58, 26576), (59, 26579), (68, 26678), (70, 26690), (73, 26711), (74, 26714), (79, 26741), (86, 26795), (94, 26873), (95, 26879), (102, 26963), (103, 26966), (104, 26981), (108, 27032), (117, 27101), (124, 27170), (136, 27281), (137, 27293), (142, 27353), (143, 27392), (145, 27413), (152, 27467), (155, 27482), (159, 27521), (160, 27527), (161, 27530),

Gene: TZGordon_29 Start: 20791, Stop: 21921, Start Num: 20

Candidate Starts for TZGordon_29:

(2, 20287), (3, 20428), (5, 20674), (8, 20710), (9, 20713), (Start: 20 @20791 has 7 MA's), (39, 20953), (40, 20968), (Start: 41 @20971 has 1 MA's), (44, 20995), (52, 21055), (54, 21064), (84, 21196), (100, 21367), (106, 21445), (111, 21475), (112, 21493), (113, 21502), (114, 21508), (116, 21514), (123, 21580), (124, 21586), (132, 21643), (135, 21685), (140, 21751), (156, 21913),

Gene: TinaLin_30 Start: 21629, Stop: 22732, Start Num: 21

Candidate Starts for TinaLin_30:

(Start: 21 @21629 has 2 MA's), (36, 21779), (40, 21806), (52, 21893), (73, 21956), (96, 22130), (101, 22199), (104, 22226), (106, 22268), (114, 22331), (123, 22403), (124, 22409), (126, 22430), (133, 22484), (136, 22520), (140, 22574), (147, 22670), (148, 22673),

Gene: Trax_32 Start: 27716, Stop: 29071, Start Num: 6

Candidate Starts for Trax_32:

(4, 27686), (Start: 6 @27716 has 9 MA's), (10, 27734), (11, 27737), (13, 27743), (18, 27797), (19, 27803), (25, 27833), (26, 27851), (35, 27944), (42, 27959), (49, 28004), (51, 28022), (52, 28028), (54, 28037), (56, 28076), (58, 28109), (59, 28112), (68, 28211), (70, 28223), (73, 28244), (74, 28247), (75, 28250), (81, 28283), (83, 28292), (92, 28385), (94, 28406), (97, 28430), (98, 28451), (99, 28469), (103, 28499), (109, 28574), (112, 28607), (126, 28724), (127, 28727), (129, 28733), (131, 28751), (132, 28760), (134, 28790), (136, 28814), (137, 28826), (142, 28886), (145, 28946), (146, 28949), (149, 28967), (152, 29000), (155, 29015), (160, 29060), (161, 29063),

Gene: Vendetta_27 Start: 20652, Stop: 21974, Start Num: 20

Candidate Starts for Vendetta_27:

(1, 19833), (2, 20148), (3, 20289), (5, 20535), (8, 20571), (9, 20574), (Start: 20 @20652 has 7 MA's), (29, 20742), (38, 20808), (40, 20829), (Start: 41 @20832 has 1 MA's), (44, 20856), (52, 20916), (54, 20925), (61, 21060), (62, 21069), (65, 21120), (69, 21174), (84, 21264), (93, 21360), (97, 21387), (101, 21444), (106, 21513), (114, 21576), (115, 21579), (121, 21621), (123, 21648), (124, 21654), (126, 21675), (134, 21741), (135, 21753), (140, 21819), (153, 21960), (154, 21963),