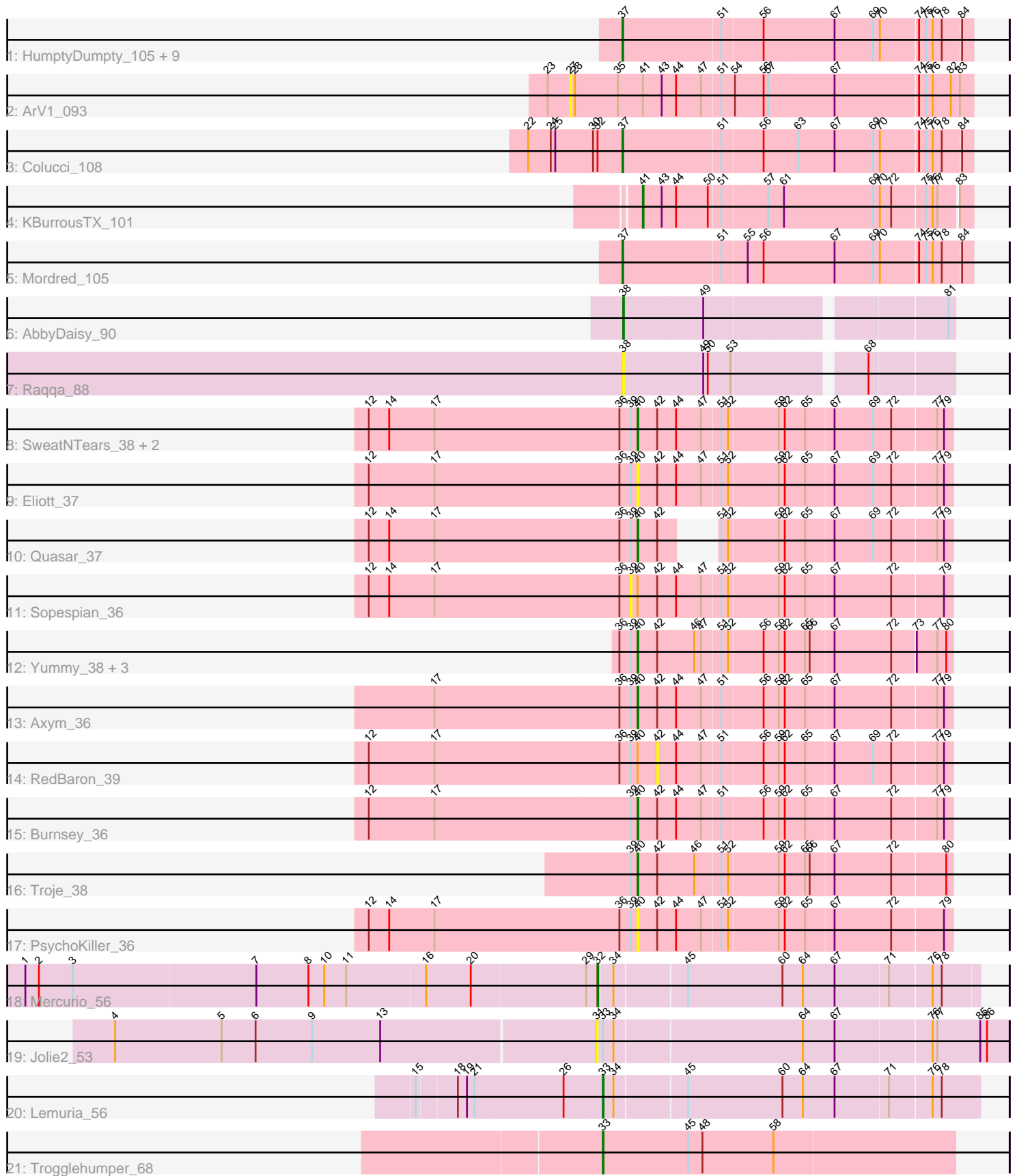


Pham 72290



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 72290 Report

This analysis was run 04/28/24 on database version 559.

Pham number 72290 has 35 members, 9 are drafts.

Phages represented in each track:

- Track 1 : HumptyDumpty_105, EdgarPoe_105, Kabreeze_105, Scavito_106, Linus_106, Chubster_105, PrincessTrina_106, JaNo_104, RosiePosie_106, Conboy_105
- Track 2 : ArV1_093
- Track 3 : Colucci_108
- Track 4 : KBurrousTX_101
- Track 5 : Mordred_105
- Track 6 : AbbyDaisy_90
- Track 7 : Raqqa_88
- Track 8 : SweatNTears_38, Agatha_36, GoldHunter_38
- Track 9 : Elliott_37
- Track 10 : Quasar_37
- Track 11 : Sopespian_36
- Track 12 : Yummy_38, Horseradish_38, Buttrmlkdreams_38, MScarn_39
- Track 13 : Axym_36
- Track 14 : RedBaron_39
- Track 15 : Burnsey_36
- Track 16 : Troje_38
- Track 17 : PsychoKiller_36
- Track 18 : Mercurio_56
- Track 19 : Jolie2_53
- Track 20 : Lemuria_56
- Track 21 : Trogglehumper_68

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

The start number called the most often in the published annotations is 37, it was called in 11 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chubster_105, Colucci_108, Conboy_105, EdgarPoe_105, HumptyDumpty_105, JaNo_104, Kabreeze_105, Linus_106, Mordred_105, PrincessTrina_106, RosiePosie_106, Scavito_106,

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

-

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

- AbbyDaisy_90, Agatha_36, ArV1_093, Axym_36, Burnsey_36, Buttrmlkdreams_38, Elliott_37, GoldHunter_38, Horseradish_38, Jolie2_53, KBurrousTX_101, Lemuria_56, MScarn_39, Mercurio_56, PsychoKiller_36, Quasar_37, Raqqa_88, RedBaron_39, Sopespian_36, SweatNTears_38, Trogglehumper_68, Troje_38, Yummy_38,

Summary by start number:

Start 27:

- Found in 1 of 35 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_093 (AR),

Start 31:

- Found in 1 of 35 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jolie2_53 (G4),

Start 32:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mercurio_56 (G4),

Start 33:

- Found in 3 of 35 (8.6%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Lemuria_56 (G4), Trogglehumper_68 (singleton),

Start 37:

- Found in 12 of 35 (34.3%) of genes in pham
- Manual Annotations of this start: 11 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chubster_105 (AR), Colucci_108 (AR), Conboy_105 (AR), EdgarPoe_105 (AR), HumptyDumpty_105 (AR), JaNo_104 (AR), Kabreeze_105 (AR), Linus_106 (AR), Mordred_105 (AR), PrincessTrina_106 (AR), RosiePosie_106 (AR), Scavito_106 (AR),

Start 38:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_90 (AY), Raqqa_88 (AY),

Start 39:

- Found in 15 of 35 (42.9%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Sopespian_36 (CT),

Start 40:

- Found in 15 of 35 (42.9%) of genes in pham
- Manual Annotations of this start: 10 of 26
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Agatha_36 (CT), Axym_36 (CT), Burnsey_36 (CT), Buttrmlkdreams_38 (CT), Elliott_37 (CT), GoldHunter_38 (CT), Horseradish_38 (CT), MScarn_39 (CT), PsychoKiller_36 (CT), Quasar_37 (CT), SweatNTears_38 (CT), Troje_38 (CT), Yummy_38 (CT),

Start 41:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_101 (AR),

Start 42:

- Found in 15 of 35 (42.9%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: RedBaron_39 (CT),

Summary by clusters:

There are 5 clusters represented in this pham: AY, singleton, G4, AR, CT,

Info for manual annotations of cluster AR:

- Start number 37 was manually annotated 11 times for cluster AR.
- Start number 41 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster AY:

- Start number 38 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CT:

- Start number 40 was manually annotated 10 times for cluster CT.

Info for manual annotations of cluster G4:

- Start number 32 was manually annotated 1 time for cluster G4.
- Start number 33 was manually annotated 1 time for cluster G4.

Gene Information:

Gene: AbbyDaisy_90 Start: 51422, Stop: 51826, Start Num: 38

Candidate Starts for AbbyDaisy_90:

(Start: 38 @51422 has 1 MA's), (49, 51527), (81, 51818),

Gene: Agatha_36 Start: 27006, Stop: 26611, Start Num: 40

Candidate Starts for Agatha_36:

(12, 27360), (14, 27333), (17, 27273), (36, 27030), (39, 27015), (Start: 40 @27006 has 10 MA's), (42, 26982), (44, 26958), (47, 26925), (51, 26901), (52, 26892), (59, 26832), (62, 26826), (65, 26799), (67, 26763), (69, 26712), (72, 26688), (77, 26631), (79, 26622),

Gene: ArV1_093 Start: 66938, Stop: 67453, Start Num: 27

Candidate Starts for ArV1_093:

(23, 66908), (27, 66938), (28, 66944), (35, 66998), (Start: 41 @67031 has 1 MA's), (43, 67055), (44, 67073), (47, 67106), (51, 67130), (54, 67145), (56, 67181), (57, 67187), (67, 67274), (74, 67382), (75, 67391), (76, 67400), (82, 67424), (83, 67436),

Gene: Axym_36 Start: 26984, Stop: 26589, Start Num: 40

Candidate Starts for Axym_36:

(17, 27251), (36, 27008), (39, 26993), (Start: 40 @26984 has 10 MA's), (42, 26960), (44, 26936), (47, 26903), (51, 26879), (56, 26828), (59, 26810), (62, 26804), (65, 26777), (67, 26741), (72, 26666), (77, 26609), (79, 26600),

Gene: Burnsey_36 Start: 26997, Stop: 26602, Start Num: 40

Candidate Starts for Burnsey_36:

(12, 27351), (17, 27264), (39, 27006), (Start: 40 @26997 has 10 MA's), (42, 26973), (44, 26949), (47, 26916), (51, 26892), (56, 26841), (59, 26823), (62, 26817), (65, 26790), (67, 26754), (72, 26679), (77, 26622), (79, 26613),

Gene: Buttrmlkdreams_38 Start: 27283, Stop: 26888, Start Num: 40

Candidate Starts for Buttrmlkdreams_38:

(36, 27307), (39, 27292), (Start: 40 @27283 has 10 MA's), (42, 27259), (46, 27211), (47, 27202), (51, 27178), (52, 27169), (56, 27127), (59, 27109), (62, 27103), (65, 27076), (66, 27070), (67, 27040), (72, 26965), (73, 26935), (77, 26908), (80, 26896),

Gene: Chubster_105 Start: 67480, Stop: 67926, Start Num: 37

Candidate Starts for Chubster_105:

(Start: 37 @67480 has 11 MA's), (51, 67606), (56, 67657), (67, 67750), (69, 67801), (70, 67810), (74, 67858), (75, 67867), (76, 67876), (78, 67888), (84, 67912),

Gene: Colucci_108 Start: 67926, Stop: 68372, Start Num: 37

Candidate Starts for Colucci_108:

(22, 67806), (24, 67836), (25, 67842), (30, 67890), (Start: 32 @67896 has 1 MA's), (Start: 37 @67926 has 11 MA's), (51, 68052), (56, 68103), (63, 68148), (67, 68196), (69, 68247), (70, 68256), (74, 68304), (75, 68313), (76, 68322), (78, 68334), (84, 68358),

Gene: Conboy_105 Start: 67317, Stop: 67763, Start Num: 37

Candidate Starts for Conboy_105:

(Start: 37 @67317 has 11 MA's), (51, 67443), (56, 67494), (67, 67587), (69, 67638), (70, 67647), (74, 67695), (75, 67704), (76, 67713), (78, 67725), (84, 67749),

Gene: EdgarPoe_105 Start: 67397, Stop: 67843, Start Num: 37

Candidate Starts for EdgarPoe_105:

(Start: 37 @67397 has 11 MA's), (51, 67523), (56, 67574), (67, 67667), (69, 67718), (70, 67727), (74, 67775), (75, 67784), (76, 67793), (78, 67805), (84, 67829),

Gene: Elliott_37 Start: 27005, Stop: 26610, Start Num: 40

Candidate Starts for Elliott_37:

(12, 27359), (17, 27272), (36, 27029), (39, 27014), (Start: 40 @27005 has 10 MA's), (42, 26981), (44, 26957), (47, 26924), (51, 26900), (52, 26891), (59, 26831), (62, 26825), (65, 26798), (67, 26762), (69, 26711), (72, 26687), (77, 26630), (79, 26621),

Gene: GoldHunter_38 Start: 27006, Stop: 26611, Start Num: 40

Candidate Starts for GoldHunter_38:

(12, 27360), (14, 27333), (17, 27273), (36, 27030), (39, 27015), (Start: 40 @27006 has 10 MA's), (42, 26982), (44, 26958), (47, 26925), (51, 26901), (52, 26892), (59, 26832), (62, 26826), (65, 26799), (67, 26763), (69, 26712), (72, 26688), (77, 26631), (79, 26622),

Gene: Horseradish_38 Start: 26811, Stop: 26416, Start Num: 40

Candidate Starts for Horseradish_38:

(36, 26835), (39, 26820), (Start: 40 @26811 has 10 MA's), (42, 26787), (46, 26739), (47, 26730), (51, 26706), (52, 26697), (56, 26655), (59, 26637), (62, 26631), (65, 26604), (66, 26598), (67, 26568), (72, 26493), (73, 26463), (77, 26436), (80, 26424),

Gene: HumptyDumpty_105 Start: 67200, Stop: 67646, Start Num: 37

Candidate Starts for HumptyDumpty_105:

(Start: 37 @67200 has 11 MA's), (51, 67326), (56, 67377), (67, 67470), (69, 67521), (70, 67530), (74, 67578), (75, 67587), (76, 67596), (78, 67608), (84, 67632),

Gene: JaNo_104 Start: 67171, Stop: 67617, Start Num: 37

Candidate Starts for JaNo_104:

(Start: 37 @67171 has 11 MA's), (51, 67297), (56, 67348), (67, 67441), (69, 67492), (70, 67501), (74, 67549), (75, 67558), (76, 67567), (78, 67579), (84, 67603),

Gene: Jolie2_53 Start: 39110, Stop: 39634, Start Num: 31

Candidate Starts for Jolie2_53:

(4, 38486), (5, 38627), (6, 38672), (9, 38747), (13, 38837), (31, 39110), (Start: 33 @39116 has 2 MA's), (34, 39128), (64, 39368), (67, 39410), (76, 39533), (77, 39539), (85, 39596), (86, 39605),

Gene: KBurrousTX_101 Start: 68254, Stop: 68670, Start Num: 41

Candidate Starts for KBurrousTX_101:

(Start: 41 @68254 has 1 MA's), (43, 68278), (44, 68296), (50, 68338), (51, 68353), (57, 68410), (61, 68431), (69, 68548), (70, 68557), (72, 68572), (75, 68614), (76, 68623), (77, 68629), (83, 68653),

Gene: Kabreeze_105 Start: 67257, Stop: 67703, Start Num: 37

Candidate Starts for Kabreeze_105:

(Start: 37 @67257 has 11 MA's), (51, 67383), (56, 67434), (67, 67527), (69, 67578), (70, 67587), (74, 67635), (75, 67644), (76, 67653), (78, 67665), (84, 67689),

Gene: Lemuria_56 Start: 40480, Stop: 40959, Start Num: 33

Candidate Starts for Lemuria_56:

(15, 40249), (18, 40297), (19, 40309), (21, 40318), (26, 40432), (Start: 33 @40480 has 2 MA's), (34, 40492), (45, 40582), (60, 40705), (64, 40732), (67, 40774), (71, 40843), (76, 40897), (78, 40909),

Gene: Linus_106 Start: 67705, Stop: 68151, Start Num: 37

Candidate Starts for Linus_106:

(Start: 37 @67705 has 11 MA's), (51, 67831), (56, 67882), (67, 67975), (69, 68026), (70, 68035), (74, 68083), (75, 68092), (76, 68101), (78, 68113), (84, 68137),

Gene: MScarn_39 Start: 26951, Stop: 26556, Start Num: 40

Candidate Starts for MScarn_39:

(36, 26975), (39, 26960), (Start: 40 @26951 has 10 MA's), (42, 26927), (46, 26879), (47, 26870), (51, 26846), (52, 26837), (56, 26795), (59, 26777), (62, 26771), (65, 26744), (66, 26738), (67, 26708), (72, 26633), (73, 26603), (77, 26576), (80, 26564),

Gene: Mercurio_56 Start: 41149, Stop: 41628, Start Num: 32

Candidate Starts for Mercurio_56:

(1, 40417), (2, 40435), (3, 40480), (7, 40720), (8, 40789), (10, 40810), (11, 40837), (16, 40936), (20, 40993), (29, 41134), (Start: 32 @41149 has 1 MA's), (34, 41164), (45, 41254), (60, 41377), (64, 41404), (67, 41446), (71, 41515), (76, 41569), (78, 41581),

Gene: Mordred_105 Start: 67296, Stop: 67742, Start Num: 37

Candidate Starts for Mordred_105:

(Start: 37 @67296 has 11 MA's), (51, 67422), (55, 67452), (56, 67473), (67, 67566), (69, 67617), (70, 67626), (74, 67674), (75, 67683), (76, 67692), (78, 67704), (84, 67728),

Gene: PrincessTrina_106 Start: 67487, Stop: 67933, Start Num: 37

Candidate Starts for PrincessTrina_106:

(Start: 37 @67487 has 11 MA's), (51, 67613), (56, 67664), (67, 67757), (69, 67808), (70, 67817), (74, 67865), (75, 67874), (76, 67883), (78, 67895), (84, 67919),

Gene: PsychoKiller_36 Start: 27006, Stop: 26611, Start Num: 40

Candidate Starts for PsychoKiller_36:

(12, 27360), (14, 27333), (17, 27273), (36, 27030), (39, 27015), (Start: 40 @27006 has 10 MA's), (42, 26982), (44, 26958), (47, 26925), (51, 26901), (52, 26892), (59, 26832), (62, 26826), (65, 26799), (67, 26763), (72, 26688), (79, 26622),

Gene: Quasar_37 Start: 27554, Stop: 27213, Start Num: 40

Candidate Starts for Quasar_37:

(12, 27908), (14, 27881), (17, 27821), (36, 27578), (39, 27563), (Start: 40 @27554 has 10 MA's), (42, 27530), (51, 27503), (52, 27494), (59, 27434), (62, 27428), (65, 27401), (67, 27365), (69, 27314), (72, 27290), (77, 27233), (79, 27224),

Gene: Raqqa_88 Start: 49081, Stop: 49485, Start Num: 38

Candidate Starts for Raqqa_88:

(Start: 38 @49081 has 1 MA's), (49, 49186), (50, 49192), (53, 49222), (68, 49378),

Gene: RedBaron_39 Start: 27219, Stop: 26848, Start Num: 42

Candidate Starts for RedBaron_39:

(12, 27597), (17, 27510), (36, 27267), (39, 27252), (Start: 40 @27243 has 10 MA's), (42, 27219), (44, 27195), (47, 27162), (51, 27138), (56, 27087), (59, 27069), (62, 27063), (65, 27036), (67, 27000), (69, 26949), (72, 26925), (77, 26868), (79, 26859),

Gene: RosiePosie_106 Start: 67618, Stop: 68064, Start Num: 37

Candidate Starts for RosiePosie_106:

(Start: 37 @67618 has 11 MA's), (51, 67744), (56, 67795), (67, 67888), (69, 67939), (70, 67948), (74, 67996), (75, 68005), (76, 68014), (78, 68026), (84, 68050),

Gene: Scavito_106 Start: 67345, Stop: 67791, Start Num: 37

Candidate Starts for Scavito_106:

(Start: 37 @67345 has 11 MA's), (51, 67471), (56, 67522), (67, 67615), (69, 67666), (70, 67675), (74, 67723), (75, 67732), (76, 67741), (78, 67753), (84, 67777),

Gene: Sopespian_36 Start: 27016, Stop: 26612, Start Num: 39

Candidate Starts for Sopespian_36:

(12, 27361), (14, 27334), (17, 27274), (36, 27031), (39, 27016), (Start: 40 @27007 has 10 MA's), (42, 26983), (44, 26959), (47, 26926), (51, 26902), (52, 26893), (59, 26833), (62, 26827), (65, 26800), (67, 26764), (72, 26689), (79, 26623),

Gene: SweatNTears_38 Start: 26903, Stop: 26508, Start Num: 40

Candidate Starts for SweatNTears_38:

(12, 27257), (14, 27230), (17, 27170), (36, 26927), (39, 26912), (Start: 40 @26903 has 10 MA's), (42, 26879), (44, 26855), (47, 26822), (51, 26798), (52, 26789), (59, 26729), (62, 26723), (65, 26696), (67, 26660), (69, 26609), (72, 26585), (77, 26528), (79, 26519),

Gene: Trogglehumper_68 Start: 55455, Stop: 55006, Start Num: 33

Candidate Starts for Trogglehumper_68:

(Start: 33 @55455 has 2 MA's), (45, 55344), (48, 55326), (58, 55239),

Gene: Troje_38 Start: 27308, Stop: 26913, Start Num: 40

Candidate Starts for Troje_38:

(39, 27317), (Start: 40 @27308 has 10 MA's), (42, 27284), (46, 27236), (51, 27203), (52, 27194), (59, 27134), (62, 27128), (65, 27101), (66, 27095), (67, 27065), (72, 26990), (80, 26921),

Gene: Yummy_38 Start: 26925, Stop: 26530, Start Num: 40

Candidate Starts for Yummy_38:

(36, 26949), (39, 26934), (Start: 40 @26925 has 10 MA's), (42, 26901), (46, 26853), (47, 26844), (51, 26820), (52, 26811), (56, 26769), (59, 26751), (62, 26745), (65, 26718), (66, 26712), (67, 26682), (72, 26607), (73, 26577), (77, 26550), (80, 26538),