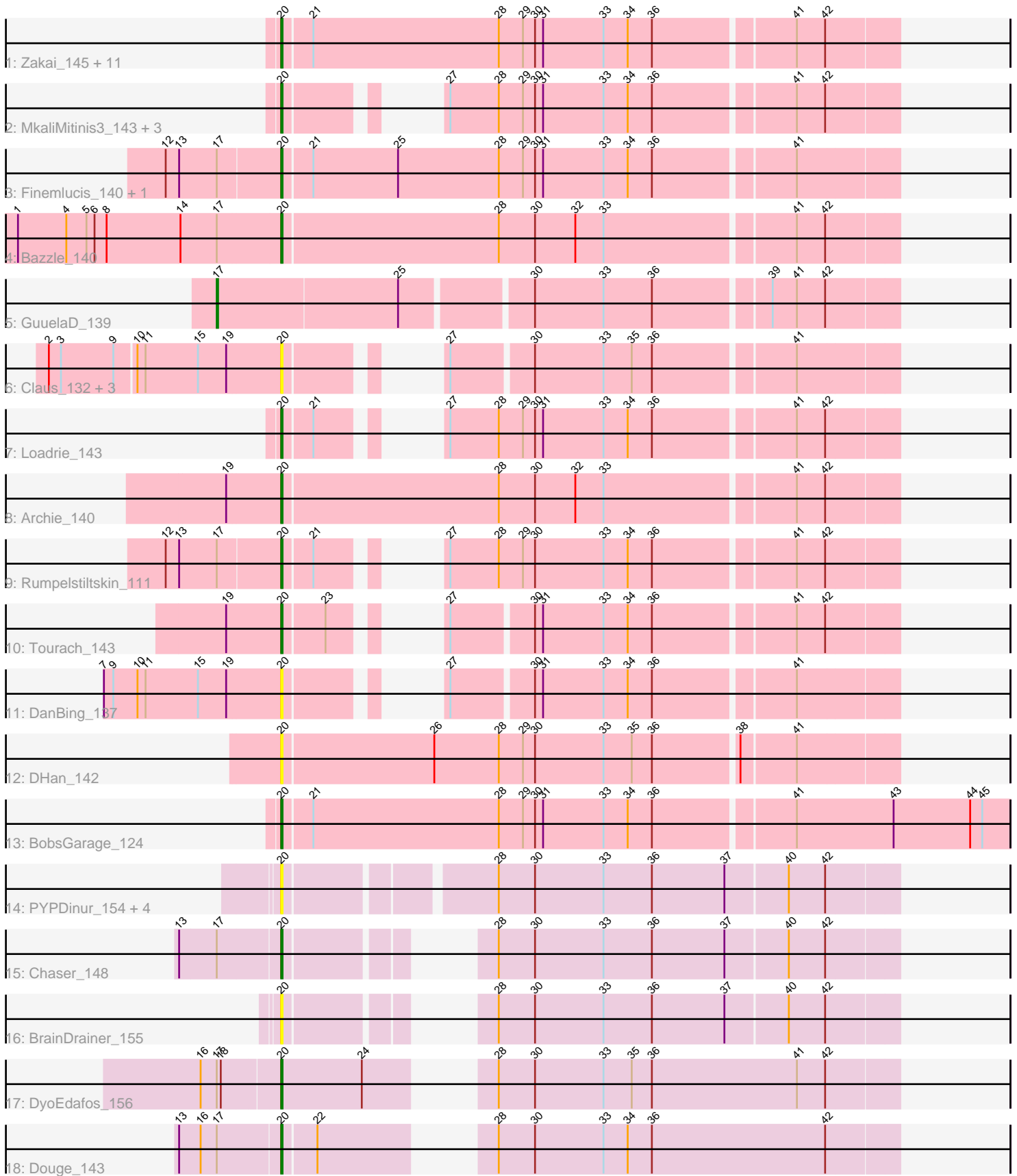


Pham 194162



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 194162 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194162 has 40 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Zakai_145, Netyap_142, Lewan_143, Sarshaun_134, Winky_143, Soap141_142, Breezona_143, DrSeegs_140, BigCheese_138, Miley16_143, Itos_144, Faith1_140
- Track 2 : MkaliMitinis3_143, Crossroads_144, Wigglewobble_144, Vetrix_140
- Track 3 : Finemlucis_140, Gabriela_142
- Track 4 : Bazzle_140
- Track 5 : GuuelaD_139
- Track 6 : Claus_132, ZhongYanYuan_140, Hafay_110, Baoshan_128
- Track 7 : Loadrie_143
- Track 8 : Archie_140
- Track 9 : Rumpelstiltskin_111
- Track 10 : Tourach_143
- Track 11 : DanBing_137
- Track 12 : DHan_142
- Track 13 : BobsGarage_124
- Track 14 : PYPDinur_154, Quby_155, Douzhi_155, FarmResident_154, Sheng711_154
- Track 15 : Chaser_148
- Track 16 : BrainDrainer_155
- Track 17 : DyoEdafos_156
- Track 18 : Douge_143

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

The start number called the most often in the published annotations is 20, it was called in 25 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archie_140, Baoshan_128, Bazzle_140, BigCheese_138, BobsGarage_124, BrainDrainer_155, Breezona_143, Chaser_148, Claus_132, Crossroads_144, DHan_142, DanBing_137, Douge_143, Douzhi_155, DrSeegs_140, DyoEdafos_156, Faith1_140, FarmResident_154, Finemlucis_140, Gabriela_142, Hafay_110, Itos_144, Lewan_143, Loadrie_143, Miley16_143, MkaliMitinis3_143, Netyap_142, PYPDinur_154, Quby_155, Rumpelstiltskin_111, Sarshaun_134, Sheng711_154,

Soap141_142, Tourach_143, Vetric_140, Wigglewiggle_144, Winky_143, Zakai_145, ZhongYanYuan_140,

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

-

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

- GuuelaD_139,

Summary by start number:

Start 17:

- Found in 8 of 40 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 12.5% of time when present
- Phage (with cluster) where this start called: GuuelaD_139 (L2),

Start 20:

- Found in 39 of 40 (97.5%) of genes in pham
- Manual Annotations of this start: 25 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archie_140 (L2), Baoshan_128 (L2), Bazzle_140 (L2), BigCheese_138 (L2), BobsGarage_124 (L2), BrainDrainer_155 (L4), Breezona_143 (L2), Chaser_148 (L4), Claus_132 (L2), Crossroads_144 (L2), DHan_142 (L2), DanBing_137 (L2), Douge_143 (L4), Douzhi_155 (L4), DrSeegs_140 (L2), DyoEdafos_156 (L4), Faith1_140 (L2), FarmResident_154 (L4), Finemlucis_140 (L2), Gabriela_142 (L2), Hafay_110 (L2), Itos_144 (L2), Lewan_143 (L2), Loadrie_143 (L2), Miley16_143 (L2), MkaliMitinis3_143 (L2), Netyap_142 (L2), PYPDinur_154 (L4), Quby_155 (L4), Rumpelstiltskin_111 (L2), Sarshaun_134 (L2), Sheng711_154 (L4), Soap141_142 (L2), Tourach_143 (L2), Vetric_140 (L2), Wigglewiggle_144 (L2), Winky_143 (L2), Zakai_145 (L2), ZhongYanYuan_140 (L2),

Summary by clusters:

There are 2 clusters represented in this pham: L4, L2,

Info for manual annotations of cluster L2:

- Start number 17 was manually annotated 1 time for cluster L2.
- Start number 20 was manually annotated 22 times for cluster L2.

Info for manual annotations of cluster L4:

- Start number 20 was manually annotated 3 times for cluster L4.

Gene Information:

Gene: Archie_140 Start: 75399, Stop: 74956, Start Num: 20

Candidate Starts for Archie_140:

(19, 75438), (Start: 20 @75399 has 25 MA's), (28, 75240), (30, 75213), (32, 75183), (33, 75162), (41, 75027), (42, 75006),

Gene: Baoshan_128 Start: 70471, Stop: 70094, Start Num: 20

Candidate Starts for Baoshan_128:

(2, 70639), (3, 70630), (9, 70591), (10, 70576), (11, 70570), (15, 70531), (19, 70510), (Start: 20 @70471 has 25 MA's), (27, 70408), (30, 70351), (33, 70300), (35, 70279), (36, 70264), (41, 70165),

Gene: Bazzle_140 Start: 75896, Stop: 75453, Start Num: 20

Candidate Starts for Bazzle_140:

(1, 76088), (4, 76052), (5, 76037), (6, 76031), (8, 76022), (14, 75968), (Start: 17 @75941 has 1 MA's), (Start: 20 @75896 has 25 MA's), (28, 75737), (30, 75710), (32, 75680), (33, 75659), (41, 75524), (42, 75503),

Gene: BigCheese_138 Start: 71942, Stop: 71499, Start Num: 20

Candidate Starts for BigCheese_138:

(Start: 20 @71942 has 25 MA's), (21, 71921), (28, 71783), (29, 71765), (30, 71756), (31, 71750), (33, 71705), (34, 71687), (36, 71669), (41, 71570), (42, 71549),

Gene: BobsGarage_124 Start: 67234, Stop: 66704, Start Num: 20

Candidate Starts for BobsGarage_124:

(Start: 20 @67234 has 25 MA's), (21, 67213), (28, 67075), (29, 67057), (30, 67048), (31, 67042), (33, 66997), (34, 66979), (36, 66961), (41, 66862), (43, 66790), (44, 66733), (45, 66724),

Gene: BrainDrainer_155 Start: 76837, Stop: 76448, Start Num: 20

Candidate Starts for BrainDrainer_155:

(Start: 20 @76837 has 25 MA's), (28, 76738), (30, 76711), (33, 76660), (36, 76624), (37, 76570), (40, 76525), (42, 76498),

Gene: Breezona_143 Start: 75784, Stop: 75341, Start Num: 20

Candidate Starts for Breezona_143:

(Start: 20 @75784 has 25 MA's), (21, 75763), (28, 75625), (29, 75607), (30, 75598), (31, 75592), (33, 75547), (34, 75529), (36, 75511), (41, 75412), (42, 75391),

Gene: Chaser_148 Start: 75823, Stop: 75434, Start Num: 20

Candidate Starts for Chaser_148:

(13, 75895), (Start: 17 @75868 has 1 MA's), (Start: 20 @75823 has 25 MA's), (28, 75724), (30, 75697), (33, 75646), (36, 75610), (37, 75556), (40, 75511), (42, 75484),

Gene: Claus_132 Start: 71384, Stop: 71007, Start Num: 20

Candidate Starts for Claus_132:

(2, 71552), (3, 71543), (9, 71504), (10, 71489), (11, 71483), (15, 71444), (19, 71423), (Start: 20 @71384 has 25 MA's), (27, 71321), (30, 71264), (33, 71213), (35, 71192), (36, 71177), (41, 71078),

Gene: Crossroads_144 Start: 75286, Stop: 74903, Start Num: 20

Candidate Starts for Crossroads_144:

(Start: 20 @75286 has 25 MA's), (27, 75223), (28, 75187), (29, 75169), (30, 75160), (31, 75154), (33, 75109), (34, 75091), (36, 75073), (41, 74974), (42, 74953),

Gene: DHan_142 Start: 75640, Stop: 75197, Start Num: 20

Candidate Starts for DHan_142:

(Start: 20 @75640 has 25 MA's), (26, 75529), (28, 75481), (29, 75463), (30, 75454), (33, 75403), (35, 75382), (36, 75367), (38, 75307), (41, 75268),

Gene: DanBing_137 Start: 71647, Stop: 71270, Start Num: 20

Candidate Starts for DanBing_137:

(7, 71776), (9, 71770), (10, 71752), (11, 71746), (15, 71707), (19, 71686), (Start: 20 @71647 has 25 MA's), (27, 71584), (30, 71527), (31, 71521), (33, 71476), (34, 71458), (36, 71440), (41, 71341),

Gene: Douge_143 Start: 73698, Stop: 73297, Start Num: 20

Candidate Starts for Douge_143:

(13, 73770), (16, 73755), (Start: 17 @73743 has 1 MA's), (Start: 20 @73698 has 25 MA's), (22, 73674), (28, 73590), (30, 73563), (33, 73512), (34, 73494), (36, 73476), (42, 73347),

Gene: Douzhi_155 Start: 77003, Stop: 76614, Start Num: 20

Candidate Starts for Douzhi_155:

(Start: 20 @77003 has 25 MA's), (28, 76904), (30, 76877), (33, 76826), (36, 76790), (37, 76736), (40, 76691), (42, 76664),

Gene: DrSeegs_140 Start: 75784, Stop: 75341, Start Num: 20

Candidate Starts for DrSeegs_140:

(Start: 20 @75784 has 25 MA's), (21, 75763), (28, 75625), (29, 75607), (30, 75598), (31, 75592), (33, 75547), (34, 75529), (36, 75511), (41, 75412), (42, 75391),

Gene: DyoEdafos_156 Start: 76685, Stop: 76281, Start Num: 20

Candidate Starts for DyoEdafos_156:

(16, 76739), (Start: 17 @76727 has 1 MA's), (18, 76724), (Start: 20 @76685 has 25 MA's), (24, 76625), (28, 76574), (30, 76547), (33, 76496), (35, 76475), (36, 76460), (41, 76352), (42, 76331),

Gene: Faith1_140 Start: 75092, Stop: 74649, Start Num: 20

Candidate Starts for Faith1_140:

(Start: 20 @75092 has 25 MA's), (21, 75071), (28, 74933), (29, 74915), (30, 74906), (31, 74900), (33, 74855), (34, 74837), (36, 74819), (41, 74720), (42, 74699),

Gene: FarmResident_154 Start: 76652, Stop: 76263, Start Num: 20

Candidate Starts for FarmResident_154:

(Start: 20 @76652 has 25 MA's), (28, 76553), (30, 76526), (33, 76475), (36, 76439), (37, 76385), (40, 76340), (42, 76313),

Gene: Finemlucis_140 Start: 76184, Stop: 75741, Start Num: 20

Candidate Starts for Finemlucis_140:

(12, 76265), (13, 76256), (Start: 17 @76229 has 1 MA's), (Start: 20 @76184 has 25 MA's), (21, 76163), (25, 76100), (28, 76025), (29, 76007), (30, 75998), (31, 75992), (33, 75947), (34, 75929), (36, 75911), (41, 75812),

Gene: Gabriela_142 Start: 74527, Stop: 74084, Start Num: 20

Candidate Starts for Gabriela_142:

(12, 74608), (13, 74599), (Start: 17 @74572 has 1 MA's), (Start: 20 @74527 has 25 MA's), (21, 74506), (25, 74443), (28, 74368), (29, 74350), (30, 74341), (31, 74335), (33, 74290), (34, 74272), (36, 74254), (41, 74155),

Gene: GuuelaD_139 Start: 75467, Stop: 74988, Start Num: 17

Candidate Starts for GuuelaD_139:

(Start: 17 @75467 has 1 MA's), (25, 75335), (30, 75245), (33, 75194), (36, 75158), (39, 75077), (41, 75059), (42, 75038),

Gene: Hafay_110 Start: 67215, Stop: 66838, Start Num: 20

Candidate Starts for Hafay_110:

(2, 67383), (3, 67374), (9, 67335), (10, 67320), (11, 67314), (15, 67275), (19, 67254), (Start: 20 @67215 has 25 MA's), (27, 67152), (30, 67095), (33, 67044), (35, 67023), (36, 67008), (41, 66909),

Gene: Itos_144 Start: 74069, Stop: 73626, Start Num: 20

Candidate Starts for Itos_144:

(Start: 20 @74069 has 25 MA's), (21, 74048), (28, 73910), (29, 73892), (30, 73883), (31, 73877), (33, 73832), (34, 73814), (36, 73796), (41, 73697), (42, 73676),

Gene: Lewan_143 Start: 75891, Stop: 75448, Start Num: 20

Candidate Starts for Lewan_143:

(Start: 20 @75891 has 25 MA's), (21, 75870), (28, 75732), (29, 75714), (30, 75705), (31, 75699), (33, 75654), (34, 75636), (36, 75618), (41, 75519), (42, 75498),

Gene: Loadrie_143 Start: 75624, Stop: 75241, Start Num: 20

Candidate Starts for Loadrie_143:

(Start: 20 @75624 has 25 MA's), (21, 75603), (27, 75561), (28, 75525), (29, 75507), (30, 75498), (31, 75492), (33, 75447), (34, 75429), (36, 75411), (41, 75312), (42, 75291),

Gene: Miley16_143 Start: 75785, Stop: 75342, Start Num: 20

Candidate Starts for Miley16_143:

(Start: 20 @75785 has 25 MA's), (21, 75764), (28, 75626), (29, 75608), (30, 75599), (31, 75593), (33, 75548), (34, 75530), (36, 75512), (41, 75413), (42, 75392),

Gene: MkaliMitinis3_143 Start: 75001, Stop: 74618, Start Num: 20

Candidate Starts for MkaliMitinis3_143:

(Start: 20 @75001 has 25 MA's), (27, 74938), (28, 74902), (29, 74884), (30, 74875), (31, 74869), (33, 74824), (34, 74806), (36, 74788), (41, 74689), (42, 74668),

Gene: Netyap_142 Start: 75498, Stop: 75055, Start Num: 20

Candidate Starts for Netyap_142:

(Start: 20 @75498 has 25 MA's), (21, 75477), (28, 75339), (29, 75321), (30, 75312), (31, 75306), (33, 75261), (34, 75243), (36, 75225), (41, 75126), (42, 75105),

Gene: PYPDinur_154 Start: 76886, Stop: 76455, Start Num: 20

Candidate Starts for PYPDinur_154:

(Start: 20 @76886 has 25 MA's), (28, 76745), (30, 76718), (33, 76667), (36, 76631), (37, 76577), (40, 76532), (42, 76505),

Gene: Quby_155 Start: 76706, Stop: 76317, Start Num: 20

Candidate Starts for Quby_155:

(Start: 20 @76706 has 25 MA's), (28, 76607), (30, 76580), (33, 76529), (36, 76493), (37, 76439), (40, 76394), (42, 76367),

Gene: Rumpelstiltskin_111 Start: 68448, Stop: 68065, Start Num: 20

Candidate Starts for Rumpelstiltskin_111:

(12, 68529), (13, 68520), (Start: 17 @68493 has 1 MA's), (Start: 20 @68448 has 25 MA's), (21, 68427), (27, 68385), (28, 68349), (29, 68331), (30, 68322), (33, 68271), (34, 68253), (36, 68235), (41, 68136), (42, 68115),

Gene: Sarshaun_134 Start: 72297, Stop: 71854, Start Num: 20

Candidate Starts for Sarshaun_134:

(Start: 20 @72297 has 25 MA's), (21, 72276), (28, 72138), (29, 72120), (30, 72111), (31, 72105), (33, 72060), (34, 72042), (36, 72024), (41, 71925), (42, 71904),

Gene: Sheng711_154 Start: 76211, Stop: 75822, Start Num: 20

Candidate Starts for Sheng711_154:

(Start: 20 @76211 has 25 MA's), (28, 76112), (30, 76085), (33, 76034), (36, 75998), (37, 75944), (40, 75899), (42, 75872),

Gene: Soap141_142 Start: 76003, Stop: 75560, Start Num: 20

Candidate Starts for Soap141_142:

(Start: 20 @76003 has 25 MA's), (21, 75982), (28, 75844), (29, 75826), (30, 75817), (31, 75811), (33, 75766), (34, 75748), (36, 75730), (41, 75631), (42, 75610),

Gene: Tourach_143 Start: 77029, Stop: 76652, Start Num: 20

Candidate Starts for Tourach_143:

(19, 77068), (Start: 20 @77029 has 25 MA's), (23, 76999), (27, 76966), (30, 76909), (31, 76903), (33, 76858), (34, 76840), (36, 76822), (41, 76723), (42, 76702),

Gene: Vetrax_140 Start: 75660, Stop: 75277, Start Num: 20

Candidate Starts for Vetrax_140:

(Start: 20 @75660 has 25 MA's), (27, 75597), (28, 75561), (29, 75543), (30, 75534), (31, 75528), (33, 75483), (34, 75465), (36, 75447), (41, 75348), (42, 75327),

Gene: Wigglewigggle_144 Start: 75586, Stop: 75203, Start Num: 20

Candidate Starts for Wigglewigggle_144:

(Start: 20 @75586 has 25 MA's), (27, 75523), (28, 75487), (29, 75469), (30, 75460), (31, 75454), (33, 75409), (34, 75391), (36, 75373), (41, 75274), (42, 75253),

Gene: Winky_143 Start: 75785, Stop: 75342, Start Num: 20

Candidate Starts for Winky_143:

(Start: 20 @75785 has 25 MA's), (21, 75764), (28, 75626), (29, 75608), (30, 75599), (31, 75593), (33, 75548), (34, 75530), (36, 75512), (41, 75413), (42, 75392),

Gene: Zakai_145 Start: 75495, Stop: 75052, Start Num: 20

Candidate Starts for Zakai_145:

(Start: 20 @75495 has 25 MA's), (21, 75474), (28, 75336), (29, 75318), (30, 75309), (31, 75303), (33, 75258), (34, 75240), (36, 75222), (41, 75123), (42, 75102),

Gene: ZhongYanYuan_140 Start: 75351, Stop: 74974, Start Num: 20

Candidate Starts for ZhongYanYuan_140:

(2, 75519), (3, 75510), (9, 75471), (10, 75456), (11, 75450), (15, 75411), (19, 75390), (Start: 20 @75351 has 25 MA's), (27, 75288), (30, 75231), (33, 75180), (35, 75159), (36, 75144), (41, 75045),