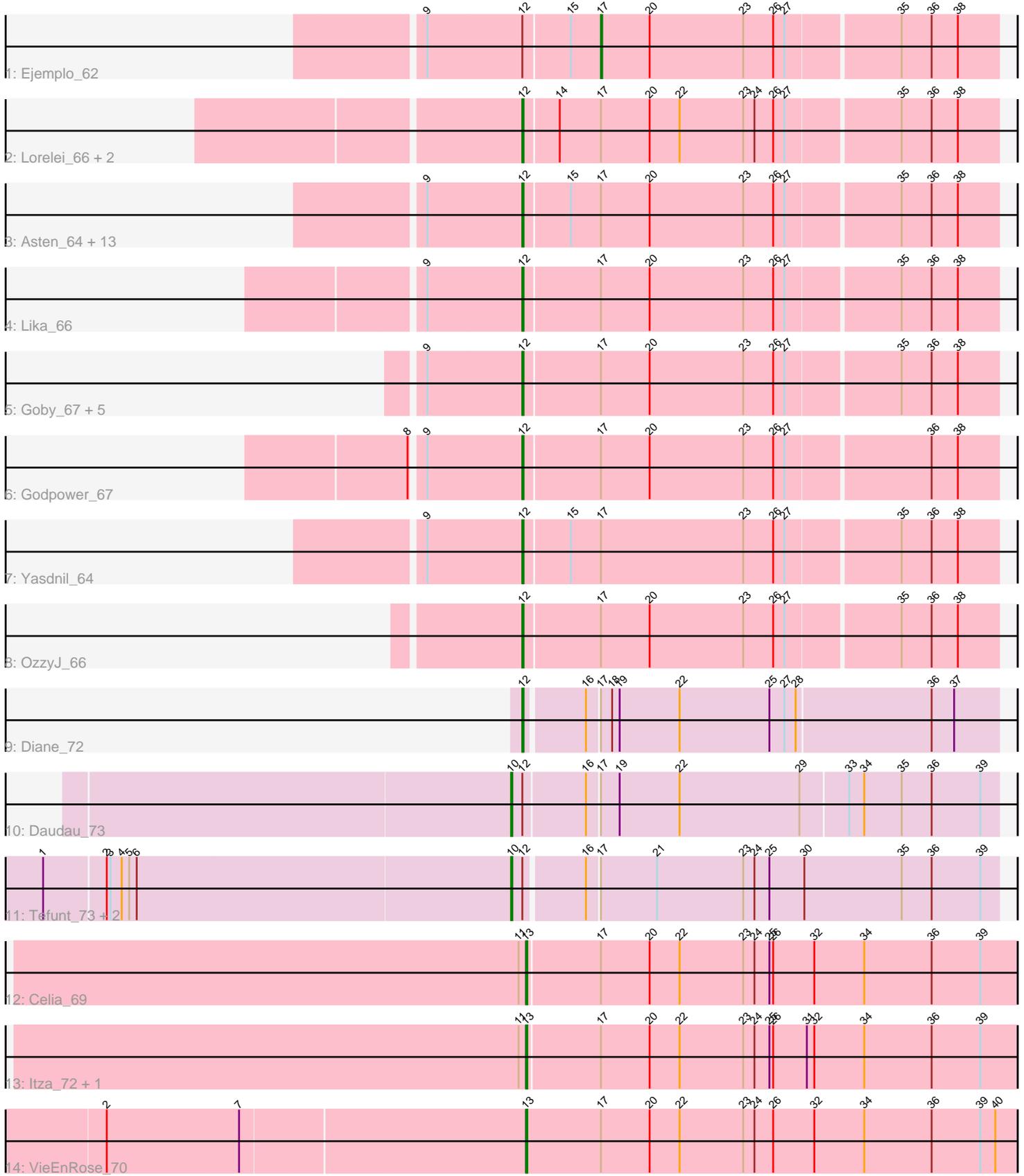


Pham 289569



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 289569 Report

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

Pham number 289569 has 37 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Ejemplo_62
- Track 2 : Lorelei_66, Rana_67, Nabi_67
- Track 3 : Asten_64, Emaanora_67, Dwayne_64, Hippo_64, SarahRose_64, TuanPN_62, Triste_65, TagePhighter_66, Werner_64, Snorlax_64, Whatever_64, Chucky_64, BarryBee_67, Maneekul_64
- Track 4 : Lika_66
- Track 5 : Goby_67, Brataylor_68, Toma_67, Danzina_67, Celeste_67, Zemlya_67
- Track 6 : Godpower_67
- Track 7 : Yasdnil_64
- Track 8 : OzzyJ_66
- Track 9 : Diane_72
- Track 10 : Daudau_73
- Track 11 : Tefunt_73, Haizum_73, Nishikigoi_74
- Track 12 : Celia_69
- Track 13 : Itza_72, Urza_71
- Track 14 : VieEnRose_70

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

The start number called the most often in the published annotations is 12, it was called in 28 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asten_64, BarryBee_67, Brataylor_68, Celeste_67, Chucky_64, Danzina_67, Diane_72, Dwayne_64, Emaanora_67, Goby_67, Godpower_67, Hippo_64, Lika_66, Lorelei_66, Maneekul_64, Nabi_67, OzzyJ_66, Rana_67, SarahRose_64, Snorlax_64, TagePhighter_66, Toma_67, Triste_65, TuanPN_62, Werner_64, Whatever_64, Yasdnil_64, Zemlya_67,

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

- Daudau_73, Ejemplo_62, Haizum_73, Nishikigoi_74, Tefunt_73,

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

- Celia_69, Itza_72, Urza_71, VieEnRose_70,

Summary by start number:

Start 10:

- Found in 4 of 37 (10.8%) of genes in pham
- Manual Annotations of this start: 4 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daudau_73 (BD2), Haizum_73 (BD2), Nishikigoi_74 (BD2), Tefunt_73 (BD2),

Start 12:

- Found in 33 of 37 (89.2%) of genes in pham
- Manual Annotations of this start: 28 of 37
- Called 84.8% of time when present
- Phage (with cluster) where this start called: Asten_64 (BD1), BarryBee_67 (BD1), Brataylor_68 (BD1), Celeste_67 (BD1), Chucky_64 (BD1), Danzina_67 (BD1), Diane_72 (BD2), Dwayne_64 (BD1), Emaanora_67 (BD1), Goby_67 (BD1), Godpower_67 (BD1), Hippo_64 (BD1), Lika_66 (BD1), Lorelei_66 (BD1), Maneekul_64 (BD1), Nabi_67 (BD1), OzzyJ_66 (BD1), Rana_67 (BD1), SarahRose_64 (BD1), Snorlax_64 (BD1), TagePhighter_66 (BD1), Toma_67 (BD1), Triste_65 (BD1), TuanPN_62 (BD1), Werner_64 (BD1), Whatever_64 (BD1), Yasdniil_64 (BD1), Zemlya_67 (BD1),

Start 13:

- Found in 4 of 37 (10.8%) of genes in pham
- Manual Annotations of this start: 4 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Celia_69 (BD6), Itza_72 (BD6), Urza_71 (BD6), VieEnRose_70 (BD6),

Start 17:

- Found in 37 of 37 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 2.7% of time when present
- Phage (with cluster) where this start called: Ejemplo_62 (BD1),

Summary by clusters:

There are 3 clusters represented in this pham: BD6, BD1, BD2,

Info for manual annotations of cluster BD1:

- Start number 12 was manually annotated 27 times for cluster BD1.
- Start number 17 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 10 was manually annotated 4 times for cluster BD2.
- Start number 12 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD6:

- Start number 13 was manually annotated 4 times for cluster BD6.

Gene Information:

Gene: Asten_64 Start: 46443, Stop: 46072, Start Num: 12

Candidate Starts for Asten_64:

(9, 46518), (Start: 12 @46443 has 28 MA's), (15, 46407), (Start: 17 @46383 has 1 MA's), (20, 46344), (23, 46269), (26, 46245), (27, 46236), (35, 46149), (36, 46125), (38, 46104),

Gene: BarryBee_67 Start: 46419, Stop: 46048, Start Num: 12

Candidate Starts for BarryBee_67:

(9, 46494), (Start: 12 @46419 has 28 MA's), (15, 46383), (Start: 17 @46359 has 1 MA's), (20, 46320), (23, 46245), (26, 46221), (27, 46212), (35, 46125), (36, 46101), (38, 46080),

Gene: Brataylor_68 Start: 45979, Stop: 45608, Start Num: 12

Candidate Starts for Brataylor_68:

(9, 46054), (Start: 12 @45979 has 28 MA's), (Start: 17 @45919 has 1 MA's), (20, 45880), (23, 45805), (26, 45781), (27, 45772), (35, 45685), (36, 45661), (38, 45640),

Gene: Celeste_67 Start: 45444, Stop: 45073, Start Num: 12

Candidate Starts for Celeste_67:

(9, 45519), (Start: 12 @45444 has 28 MA's), (Start: 17 @45384 has 1 MA's), (20, 45345), (23, 45270), (26, 45246), (27, 45237), (35, 45150), (36, 45126), (38, 45105),

Gene: Celia_69 Start: 45609, Stop: 45220, Start Num: 13

Candidate Starts for Celia_69:

(11, 45615), (Start: 13 @45609 has 4 MA's), (Start: 17 @45552 has 1 MA's), (20, 45513), (22, 45489), (23, 45438), (24, 45429), (25, 45417), (26, 45414), (32, 45381), (34, 45342), (36, 45288), (39, 45249),

Gene: Chucky_64 Start: 46480, Stop: 46109, Start Num: 12

Candidate Starts for Chucky_64:

(9, 46555), (Start: 12 @46480 has 28 MA's), (15, 46444), (Start: 17 @46420 has 1 MA's), (20, 46381), (23, 46306), (26, 46282), (27, 46273), (35, 46186), (36, 46162), (38, 46141),

Gene: Danzina_67 Start: 45693, Stop: 45322, Start Num: 12

Candidate Starts for Danzina_67:

(9, 45768), (Start: 12 @45693 has 28 MA's), (Start: 17 @45633 has 1 MA's), (20, 45594), (23, 45519), (26, 45495), (27, 45486), (35, 45399), (36, 45375), (38, 45354),

Gene: Daudau_73 Start: 46103, Stop: 45723, Start Num: 10

Candidate Starts for Daudau_73:

(Start: 10 @46103 has 4 MA's), (Start: 12 @46094 has 28 MA's), (16, 46046), (Start: 17 @46037 has 1 MA's), (19, 46022), (22, 45974), (29, 45878), (33, 45842), (34, 45830), (35, 45800), (36, 45776), (39, 45737),

Gene: Diane_72 Start: 46434, Stop: 46066, Start Num: 12

Candidate Starts for Diane_72:

(Start: 12 @46434 has 28 MA's), (16, 46389), (Start: 17 @46380 has 1 MA's), (18, 46371), (19, 46365), (22, 46317), (25, 46245), (27, 46233), (28, 46224), (36, 46119), (37, 46101),

Gene: Dwayne_64 Start: 46468, Stop: 46097, Start Num: 12

Candidate Starts for Dwayne_64:

(9, 46543), (Start: 12 @46468 has 28 MA's), (15, 46432), (Start: 17 @46408 has 1 MA's), (20, 46369), (23, 46294), (26, 46270), (27, 46261), (35, 46174), (36, 46150), (38, 46129),

Gene: Ejemplo_62 Start: 46347, Stop: 46036, Start Num: 17

Candidate Starts for Ejemplo_62:

(9, 46482), (Start: 12 @46407 has 28 MA's), (15, 46371), (Start: 17 @46347 has 1 MA's), (20, 46308), (23, 46233), (26, 46209), (27, 46200), (35, 46113), (36, 46089), (38, 46068),

Gene: Emaanora_67 Start: 46392, Stop: 46021, Start Num: 12

Candidate Starts for Emaanora_67:

(9, 46467), (Start: 12 @46392 has 28 MA's), (15, 46356), (Start: 17 @46332 has 1 MA's), (20, 46293), (23, 46218), (26, 46194), (27, 46185), (35, 46098), (36, 46074), (38, 46053),

Gene: Goby_67 Start: 46314, Stop: 45943, Start Num: 12

Candidate Starts for Goby_67:

(9, 46389), (Start: 12 @46314 has 28 MA's), (Start: 17 @46254 has 1 MA's), (20, 46215), (23, 46140), (26, 46116), (27, 46107), (35, 46020), (36, 45996), (38, 45975),

Gene: Godpower_67 Start: 45590, Stop: 45219, Start Num: 12

Candidate Starts for Godpower_67:

(8, 45674), (9, 45665), (Start: 12 @45590 has 28 MA's), (Start: 17 @45530 has 1 MA's), (20, 45491), (23, 45416), (26, 45392), (27, 45383), (36, 45272), (38, 45251),

Gene: Haizum_73 Start: 46686, Stop: 46306, Start Num: 10

Candidate Starts for Haizum_73:

(1, 47055), (2, 47007), (3, 47004), (4, 46995), (5, 46989), (6, 46983), (Start: 10 @46686 has 4 MA's), (Start: 12 @46677 has 28 MA's), (16, 46632), (Start: 17 @46623 has 1 MA's), (21, 46578), (23, 46509), (24, 46500), (25, 46488), (30, 46461), (35, 46383), (36, 46359), (39, 46320),

Gene: Hippo_64 Start: 46455, Stop: 46084, Start Num: 12

Candidate Starts for Hippo_64:

(9, 46530), (Start: 12 @46455 has 28 MA's), (15, 46419), (Start: 17 @46395 has 1 MA's), (20, 46356), (23, 46281), (26, 46257), (27, 46248), (35, 46161), (36, 46137), (38, 46116),

Gene: Itza_72 Start: 45542, Stop: 45153, Start Num: 13

Candidate Starts for Itza_72:

(11, 45548), (Start: 13 @45542 has 4 MA's), (Start: 17 @45485 has 1 MA's), (20, 45446), (22, 45422), (23, 45371), (24, 45362), (25, 45350), (26, 45347), (31, 45320), (32, 45314), (34, 45275), (36, 45221), (39, 45182),

Gene: Lika_66 Start: 46143, Stop: 45772, Start Num: 12

Candidate Starts for Lika_66:

(9, 46218), (Start: 12 @46143 has 28 MA's), (Start: 17 @46083 has 1 MA's), (20, 46044), (23, 45969), (26, 45945), (27, 45936), (35, 45849), (36, 45825), (38, 45804),

Gene: Lorelei_66 Start: 45450, Stop: 45079, Start Num: 12

Candidate Starts for Lorelei_66:

(Start: 12 @45450 has 28 MA's), (14, 45423), (Start: 17 @45390 has 1 MA's), (20, 45351), (22, 45327), (23, 45276), (24, 45267), (26, 45252), (27, 45243), (35, 45156), (36, 45132), (38, 45111),

Gene: Maneekul_64 Start: 46485, Stop: 46114, Start Num: 12

Candidate Starts for Maneekul_64:

(9, 46560), (Start: 12 @46485 has 28 MA's), (15, 46449), (Start: 17 @46425 has 1 MA's), (20, 46386), (23, 46311), (26, 46287), (27, 46278), (35, 46191), (36, 46167), (38, 46146),

Gene: Nabi_67 Start: 46021, Stop: 45650, Start Num: 12

Candidate Starts for Nabi_67:

(Start: 12 @46021 has 28 MA's), (14, 45994), (Start: 17 @45961 has 1 MA's), (20, 45922), (22, 45898), (23, 45847), (24, 45838), (26, 45823), (27, 45814), (35, 45727), (36, 45703), (38, 45682),

Gene: Nishikigoi_74 Start: 46686, Stop: 46306, Start Num: 10

Candidate Starts for Nishikigoi_74:

(1, 47055), (2, 47007), (3, 47004), (4, 46995), (5, 46989), (6, 46983), (Start: 10 @46686 has 4 MA's), (Start: 12 @46677 has 28 MA's), (16, 46632), (Start: 17 @46623 has 1 MA's), (21, 46578), (23, 46509), (24, 46500), (25, 46488), (30, 46461), (35, 46383), (36, 46359), (39, 46320),

Gene: OzzyJ_66 Start: 46380, Stop: 46009, Start Num: 12

Candidate Starts for OzzyJ_66:

(Start: 12 @46380 has 28 MA's), (Start: 17 @46320 has 1 MA's), (20, 46281), (23, 46206), (26, 46182), (27, 46173), (35, 46086), (36, 46062), (38, 46041),

Gene: Rana_67 Start: 45872, Stop: 45501, Start Num: 12

Candidate Starts for Rana_67:

(Start: 12 @45872 has 28 MA's), (14, 45845), (Start: 17 @45812 has 1 MA's), (20, 45773), (22, 45749), (23, 45698), (24, 45689), (26, 45674), (27, 45665), (35, 45578), (36, 45554), (38, 45533),

Gene: SarahRose_64 Start: 46455, Stop: 46084, Start Num: 12

Candidate Starts for SarahRose_64:

(9, 46530), (Start: 12 @46455 has 28 MA's), (15, 46419), (Start: 17 @46395 has 1 MA's), (20, 46356), (23, 46281), (26, 46257), (27, 46248), (35, 46161), (36, 46137), (38, 46116),

Gene: Snorlax_64 Start: 46480, Stop: 46109, Start Num: 12

Candidate Starts for Snorlax_64:

(9, 46555), (Start: 12 @46480 has 28 MA's), (15, 46444), (Start: 17 @46420 has 1 MA's), (20, 46381), (23, 46306), (26, 46282), (27, 46273), (35, 46186), (36, 46162), (38, 46141),

Gene: TagePighther_66 Start: 46455, Stop: 46084, Start Num: 12

Candidate Starts for TagePighther_66:

(9, 46530), (Start: 12 @46455 has 28 MA's), (15, 46419), (Start: 17 @46395 has 1 MA's), (20, 46356), (23, 46281), (26, 46257), (27, 46248), (35, 46161), (36, 46137), (38, 46116),

Gene: Tefunt_73 Start: 46600, Stop: 46220, Start Num: 10

Candidate Starts for Tefunt_73:

(1, 46969), (2, 46921), (3, 46918), (4, 46909), (5, 46903), (6, 46897), (Start: 10 @46600 has 4 MA's), (Start: 12 @46591 has 28 MA's), (16, 46546), (Start: 17 @46537 has 1 MA's), (21, 46492), (23, 46423), (24, 46414), (25, 46402), (30, 46375), (35, 46297), (36, 46273), (39, 46234),

Gene: Toma_67 Start: 46317, Stop: 45946, Start Num: 12

Candidate Starts for Toma_67:

(9, 46392), (Start: 12 @46317 has 28 MA's), (Start: 17 @46257 has 1 MA's), (20, 46218), (23, 46143), (26, 46119), (27, 46110), (35, 46023), (36, 45999), (38, 45978),

Gene: Triste_65 Start: 46454, Stop: 46083, Start Num: 12

Candidate Starts for Triste_65:

(9, 46529), (Start: 12 @46454 has 28 MA's), (15, 46418), (Start: 17 @46394 has 1 MA's), (20, 46355), (23, 46280), (26, 46256), (27, 46247), (35, 46160), (36, 46136), (38, 46115),

Gene: TuanPN_62 Start: 46407, Stop: 46036, Start Num: 12

Candidate Starts for TuanPN_62:

(9, 46482), (Start: 12 @46407 has 28 MA's), (15, 46371), (Start: 17 @46347 has 1 MA's), (20, 46308), (23, 46233), (26, 46209), (27, 46200), (35, 46113), (36, 46089), (38, 46068),

Gene: Urza_71 Start: 45563, Stop: 45174, Start Num: 13

Candidate Starts for Urza_71:

(11, 45569), (Start: 13 @45563 has 4 MA's), (Start: 17 @45506 has 1 MA's), (20, 45467), (22, 45443), (23, 45392), (24, 45383), (25, 45371), (26, 45368), (31, 45341), (32, 45335), (34, 45296), (36, 45242), (39, 45203),

Gene: VieEnRose_70 Start: 45152, Stop: 44760, Start Num: 13

Candidate Starts for VieEnRose_70:

(2, 45479), (7, 45374), (Start: 13 @45152 has 4 MA's), (Start: 17 @45092 has 1 MA's), (20, 45053), (22, 45029), (23, 44978), (24, 44969), (26, 44954), (32, 44921), (34, 44882), (36, 44828), (39, 44789), (40, 44777),

Gene: Werner_64 Start: 46452, Stop: 46081, Start Num: 12

Candidate Starts for Werner_64:

(9, 46527), (Start: 12 @46452 has 28 MA's), (15, 46416), (Start: 17 @46392 has 1 MA's), (20, 46353), (23, 46278), (26, 46254), (27, 46245), (35, 46158), (36, 46134), (38, 46113),

Gene: Whatever_64 Start: 46477, Stop: 46106, Start Num: 12

Candidate Starts for Whatever_64:

(9, 46552), (Start: 12 @46477 has 28 MA's), (15, 46441), (Start: 17 @46417 has 1 MA's), (20, 46378), (23, 46303), (26, 46279), (27, 46270), (35, 46183), (36, 46159), (38, 46138),

Gene: Yasdnii_64 Start: 46504, Stop: 46133, Start Num: 12

Candidate Starts for Yasdnii_64:

(9, 46579), (Start: 12 @46504 has 28 MA's), (15, 46468), (Start: 17 @46444 has 1 MA's), (23, 46330), (26, 46306), (27, 46297), (35, 46210), (36, 46186), (38, 46165),

Gene: Zemlya_67 Start: 45998, Stop: 45627, Start Num: 12

Candidate Starts for Zemlya_67:

(9, 46073), (Start: 12 @45998 has 28 MA's), (Start: 17 @45938 has 1 MA's), (20, 45899), (23, 45824), (26, 45800), (27, 45791), (35, 45704), (36, 45680), (38, 45659),