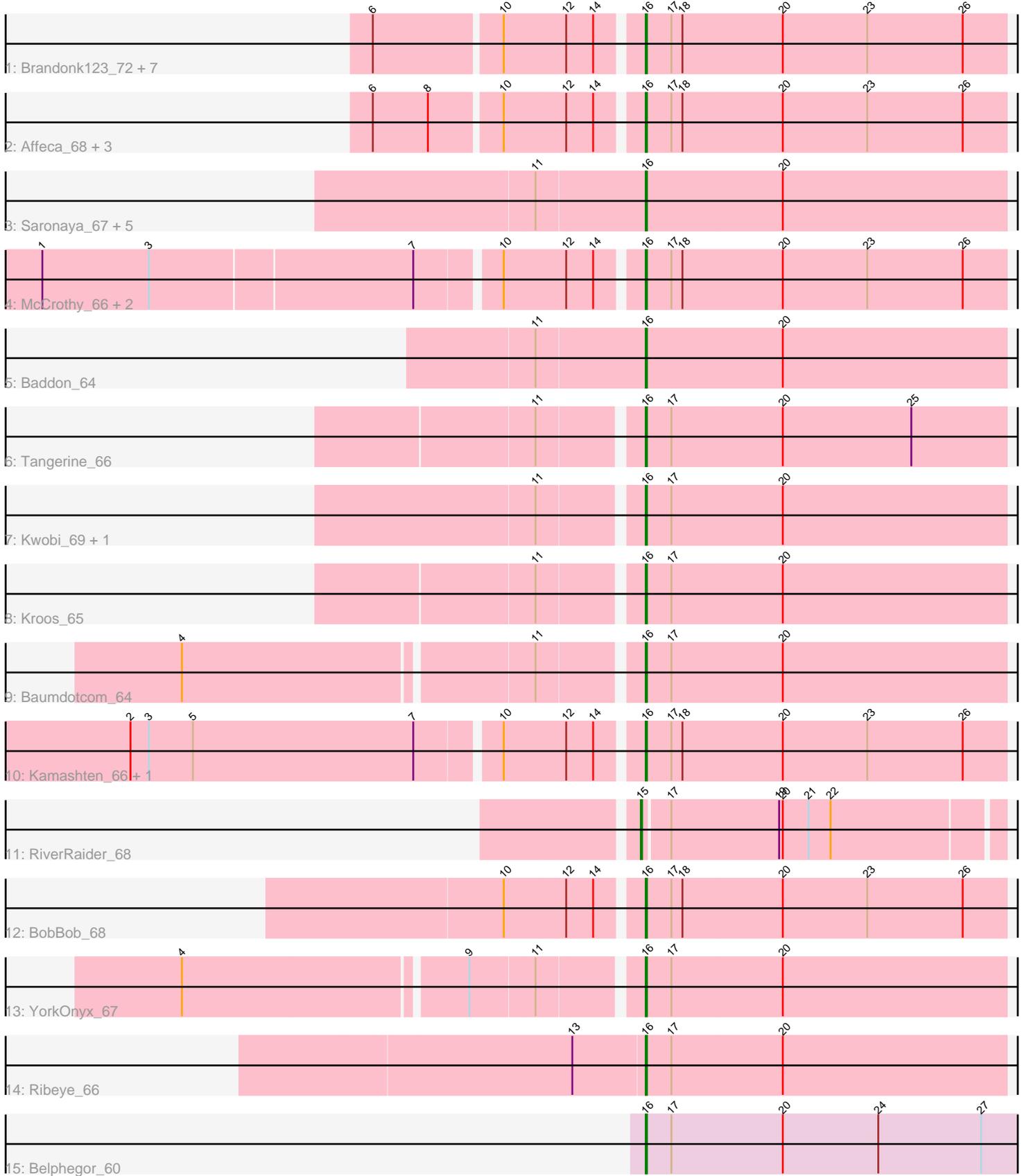# Pham 291372

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 291372 Report

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

Pham number 291372 has 34 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Brandonk123_72, Nordenberg_66, MoontowerMania_67, Rofo_68, Vivi2_72, Charming_71, Fosterous_70, Tangent_70
• Track 2 : Affeca_68, Love_72, Angelicage_66, Shivanishola_67
• Track 3 : Saronaya_67, Flatwoods_66, Derg_60, Gustavo_67, Tycho_64, Bizzy_66
• Track 4 : McCrothy_66, Paries_69, Galadriel_67
• Track 5 : Baddon_64
• Track 6 : Tangerine_66
• Track 7 : Kwobi_69, StorminNorm_66
• Track 8 : Kroos_65
• Track 9 : Baumdotcom_64
• Track 10 : Kamashten_66, Thing3_66
• Track 11 : RiverRaider_68
• Track 12 : BobBob_68
• Track 13 : YorkOnyx_67
• Track 14 : Ribeye_66
• Track 15 : Belphegor_60

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

The start number called the most often in the published annotations is 16, it was called in 32 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Affeca_68, Angelicage_66, Baddon_64, Baumdotcom_64, Belphegor_60, Bizzy_66, BobBob_68, Brandonk123_72, Charming_71, Derg_60, Flatwoods_66, Fosterous_70, Galadriel_67, Gustavo_67, Kamashten_66, Kroos_65, Kwobi_69, Love_72, McCrothy_66, MoontowerMania_67, Nordenberg_66, Paries_69, Ribeye_66, Rofo_68, Saronaya_67, Shivanishola_67, StorminNorm_66, Tangent_70, Tangerine_66, Thing3_66, Tycho_64, Vivi2_72, YorkOnyx_67,

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

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

• RiverRaider_68,

Summary by start number:

Start 15:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RiverRaider_68 (DE1),

Start 16:
• Found in 33 of 34 (97.1%) of genes in pham
• Manual Annotations of this start: 32 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Affeca_68 (DE1), Angelicage_66 (DE1), Baddon_64 (DE1), Baumdotcom_64 (DE1), Belphegor_60 (DE2), Bizzy_66 (DE1), BobBob_68 (DE1), Brandonk123_72 (DE1), Charming_71 (DE1), Derg_60 (DE1), Flatwoods_66 (DE1), Fosterous_70 (DE1), Galadriel_67 (DE1), Gustavo_67 (DE1), Kamashten_66 (DE1), Kroos_65 (DE1), Kwobi_69 (DE1), Love_72 (DE1), McCrothy_66 (DE1), MoontowerMania_67 (DE1), Nordenberg_66 (DE1), Paries_69 (DE1), Ribeye_66 (DE1), Rofo_68 (DE1), Saronaya_67 (DE1), Shivanishola_67 (DE1), StorminNorm_66 (DE1), Tangent_70 (DE1), Tangerine_66 (DE1), Thing3_66 (DE1), Tycho_64 (DE1), Vivi2_72 (DE1), YorkOnyx_67 (DE1),

Summary by clusters:

There are 2 clusters represented in this pham: DE1, DE2,

Info for manual annotations of cluster DE1:
•Start number 15 was manually annotated 1 time for cluster DE1.
•Start number 16 was manually annotated 31 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 16 was manually annotated 1 time for cluster DE2.

Gene Information:
Gene: Affeca_68 Start: 51708, Stop: 52001, Start Num: 16
Candidate Starts for Affeca_68:
(6, 51507), (8, 51552), (10, 51606), (12, 51654), (14, 51675), (Start: 16 @51708 has 32 MA's), (17, 51729), (18, 51738), (20, 51819), (23, 51888), (26, 51966),

Gene: Angelicage_66 Start: 51660, Stop: 51953, Start Num: 16
Candidate Starts for Angelicage_66:
(6, 51459), (8, 51504), (10, 51558), (12, 51606), (14, 51627), (Start: 16 @51660 has 32 MA's), (17, 51681), (18, 51690), (20, 51771), (23, 51840), (26, 51918),

Gene: Baddon_64 Start: 50498, Stop: 50791, Start Num: 16
Candidate Starts for Baddon_64:
(11, 50411), (Start: 16 @50498 has 32 MA's), (20, 50609),

Gene: Baumdotcom_64 Start: 49775, Stop: 50068, Start Num: 16
Candidate Starts for Baumdotcom_64:
(4, 49427), (11, 49700), (Start: 16 @49775 has 32 MA's), (17, 49796), (20, 49886),

Gene: Belphegor_60 Start: 48965, Stop: 49273, Start Num: 16
Candidate Starts for Belphegor_60:
(Start: 16 @48965 has 32 MA's), (17, 48986), (20, 49076), (24, 49154), (27, 49238),

Gene: Bizzy_66 Start: 49695, Stop: 49988, Start Num: 16
Candidate Starts for Bizzy_66:
(11, 49608), (Start: 16 @49695 has 32 MA's), (20, 49806),

Gene: BobBob_68 Start: 50960, Stop: 51253, Start Num: 16
Candidate Starts for BobBob_68:
(10, 50858), (12, 50906), (14, 50927), (Start: 16 @50960 has 32 MA's), (17, 50981), (18, 50990), (20, 51071), (23, 51140), (26, 51218),

Gene: Brandonk123_72 Start: 51352, Stop: 51645, Start Num: 16
Candidate Starts for Brandonk123_72:
(6, 51151), (10, 51250), (12, 51298), (14, 51319), (Start: 16 @51352 has 32 MA's), (17, 51373), (18, 51382), (20, 51463), (23, 51532), (26, 51610),

Gene: Charming_71 Start: 50704, Stop: 50997, Start Num: 16
Candidate Starts for Charming_71:
(6, 50503), (10, 50602), (12, 50650), (14, 50671), (Start: 16 @50704 has 32 MA's), (17, 50725), (18, 50734), (20, 50815), (23, 50884), (26, 50962),

Gene: Derg_60 Start: 48491, Stop: 48784, Start Num: 16
Candidate Starts for Derg_60:
(11, 48404), (Start: 16 @48491 has 32 MA's), (20, 48602),

Gene: Flatwoods_66 Start: 49372, Stop: 49665, Start Num: 16
Candidate Starts for Flatwoods_66:
(11, 49285), (Start: 16 @49372 has 32 MA's), (20, 49483),

Gene: Fosterous_70 Start: 51698, Stop: 51991, Start Num: 16
Candidate Starts for Fosterous_70:
(6, 51497), (10, 51596), (12, 51644), (14, 51665), (Start: 16 @51698 has 32 MA's), (17, 51719), (18, 51728), (20, 51809), (23, 51878), (26, 51956),

Gene: Galadriel_67 Start: 51652, Stop: 51945, Start Num: 16
Candidate Starts for Galadriel_67:
(1, 51190), (3, 51277), (7, 51487), (10, 51550), (12, 51598), (14, 51619), (Start: 16 @51652 has 32 MA's), (17, 51673), (18, 51682), (20, 51763), (23, 51832), (26, 51910),

Gene: Gustavo_67 Start: 50574, Stop: 50867, Start Num: 16
Candidate Starts for Gustavo_67:
(11, 50487), (Start: 16 @50574 has 32 MA's), (20, 50685),

Gene: Kamashten_66 Start: 50778, Stop: 51071, Start Num: 16
Candidate Starts for Kamashten_66:
(2, 50382), (3, 50397), (5, 50433), (7, 50613), (10, 50676), (12, 50724), (14, 50745), (Start: 16 @50778 has 32 MA's), (17, 50799), (18, 50808), (20, 50889), (23, 50958), (26, 51036),

Gene: Kroos_65 Start: 50247, Stop: 50540, Start Num: 16
Candidate Starts for Kroos_65:
(11, 50172), (Start: 16 @50247 has 32 MA's), (17, 50268), (20, 50358),

Gene: Kwobi_69 Start: 50858, Stop: 51151, Start Num: 16
Candidate Starts for Kwobi_69:
(11, 50783), (Start: 16 @50858 has 32 MA's), (17, 50879), (20, 50969),

Gene: Love_72 Start: 52148, Stop: 52441, Start Num: 16
Candidate Starts for Love_72:
(6, 51947), (8, 51992), (10, 52046), (12, 52094), (14, 52115), (Start: 16 @52148 has 32 MA's), (17, 52169), (18, 52178), (20, 52259), (23, 52328), (26, 52406),

Gene: McCrothy_66 Start: 52237, Stop: 52530, Start Num: 16
Candidate Starts for McCrothy_66:
(1, 51775), (3, 51862), (7, 52072), (10, 52135), (12, 52183), (14, 52204), (Start: 16 @52237 has 32 MA's), (17, 52258), (18, 52267), (20, 52348), (23, 52417), (26, 52495),

Gene: MoontowerMania_67 Start: 52256, Stop: 52549, Start Num: 16
Candidate Starts for MoontowerMania_67:
(6, 52055), (10, 52154), (12, 52202), (14, 52223), (Start: 16 @52256 has 32 MA's), (17, 52277), (18, 52286), (20, 52367), (23, 52436), (26, 52514),

Gene: Nordenberg_66 Start: 50268, Stop: 50561, Start Num: 16
Candidate Starts for Nordenberg_66:
(6, 50067), (10, 50166), (12, 50214), (14, 50235), (Start: 16 @50268 has 32 MA's), (17, 50289), (18, 50298), (20, 50379), (23, 50448), (26, 50526),

Gene: Paries_69 Start: 51838, Stop: 52131, Start Num: 16
Candidate Starts for Paries_69:
(1, 51376), (3, 51463), (7, 51673), (10, 51736), (12, 51784), (14, 51805), (Start: 16 @51838 has 32 MA's), (17, 51859), (18, 51868), (20, 51949), (23, 52018), (26, 52096),

Gene: Ribeye_66 Start: 49730, Stop: 50023, Start Num: 16
Candidate Starts for Ribeye_66:
(13, 49673), (Start: 16 @49730 has 32 MA's), (17, 49751), (20, 49841),

Gene: RiverRaider_68 Start: 49325, Stop: 49609, Start Num: 15
Candidate Starts for RiverRaider_68:
(Start: 15 @49325 has 1 MA's), (17, 49346), (19, 49433), (20, 49436), (21, 49457), (22, 49475),

Gene: Rofo_68 Start: 51280, Stop: 51573, Start Num: 16
Candidate Starts for Rofo_68:
(6, 51079), (10, 51178), (12, 51226), (14, 51247), (Start: 16 @51280 has 32 MA's), (17, 51301), (18, 51310), (20, 51391), (23, 51460), (26, 51538),

Gene: Saronaya_67 Start: 50574, Stop: 50867, Start Num: 16
Candidate Starts for Saronaya_67:
(11, 50487), (Start: 16 @50574 has 32 MA's), (20, 50685),

Gene: Shivanishola_67 Start: 49920, Stop: 50213, Start Num: 16
Candidate Starts for Shivanishola_67:

(6, 49719), (8, 49764), (10, 49818), (12, 49866), (14, 49887), (Start: 16 @49920 has 32 MA's), (17, 49941), (18, 49950), (20, 50031), (23, 50100), (26, 50178),

Gene: StorminNorm_66 Start: 50358, Stop: 50651, Start Num: 16
Candidate Starts for StorminNorm_66:
(11, 50283), (Start: 16 @50358 has 32 MA's), (17, 50379), (20, 50469),

Gene: Tangent_70 Start: 50985, Stop: 51278, Start Num: 16
Candidate Starts for Tangent_70:
(6, 50784), (10, 50883), (12, 50931), (14, 50952), (Start: 16 @50985 has 32 MA's), (17, 51006), (18, 51015), (20, 51096), (23, 51165), (26, 51243),

Gene: Tangerine_66 Start: 49867, Stop: 50160, Start Num: 16
Candidate Starts for Tangerine_66:
(11, 49792), (Start: 16 @49867 has 32 MA's), (17, 49888), (20, 49978), (25, 50083),

Gene: Thing3_66 Start: 50778, Stop: 51071, Start Num: 16
Candidate Starts for Thing3_66:
(2, 50382), (3, 50397), (5, 50433), (7, 50613), (10, 50676), (12, 50724), (14, 50745), (Start: 16 @50778 has 32 MA's), (17, 50799), (18, 50808), (20, 50889), (23, 50958), (26, 51036),

Gene: Tycho_64 Start: 49683, Stop: 49976, Start Num: 16
Candidate Starts for Tycho_64:
(11, 49596), (Start: 16 @49683 has 32 MA's), (20, 49794),

Gene: Vivi2_72 Start: 52040, Stop: 52333, Start Num: 16
Candidate Starts for Vivi2_72:
(6, 51839), (10, 51938), (12, 51986), (14, 52007), (Start: 16 @52040 has 32 MA's), (17, 52061), (18, 52070), (20, 52151), (23, 52220), (26, 52298),

Gene: YorkOnyx_67 Start: 49863, Stop: 50156, Start Num: 16
Candidate Starts for YorkOnyx_67:
(4, 49515), (9, 49737), (11, 49788), (Start: 16 @49863 has 32 MA's), (17, 49884), (20, 49974),