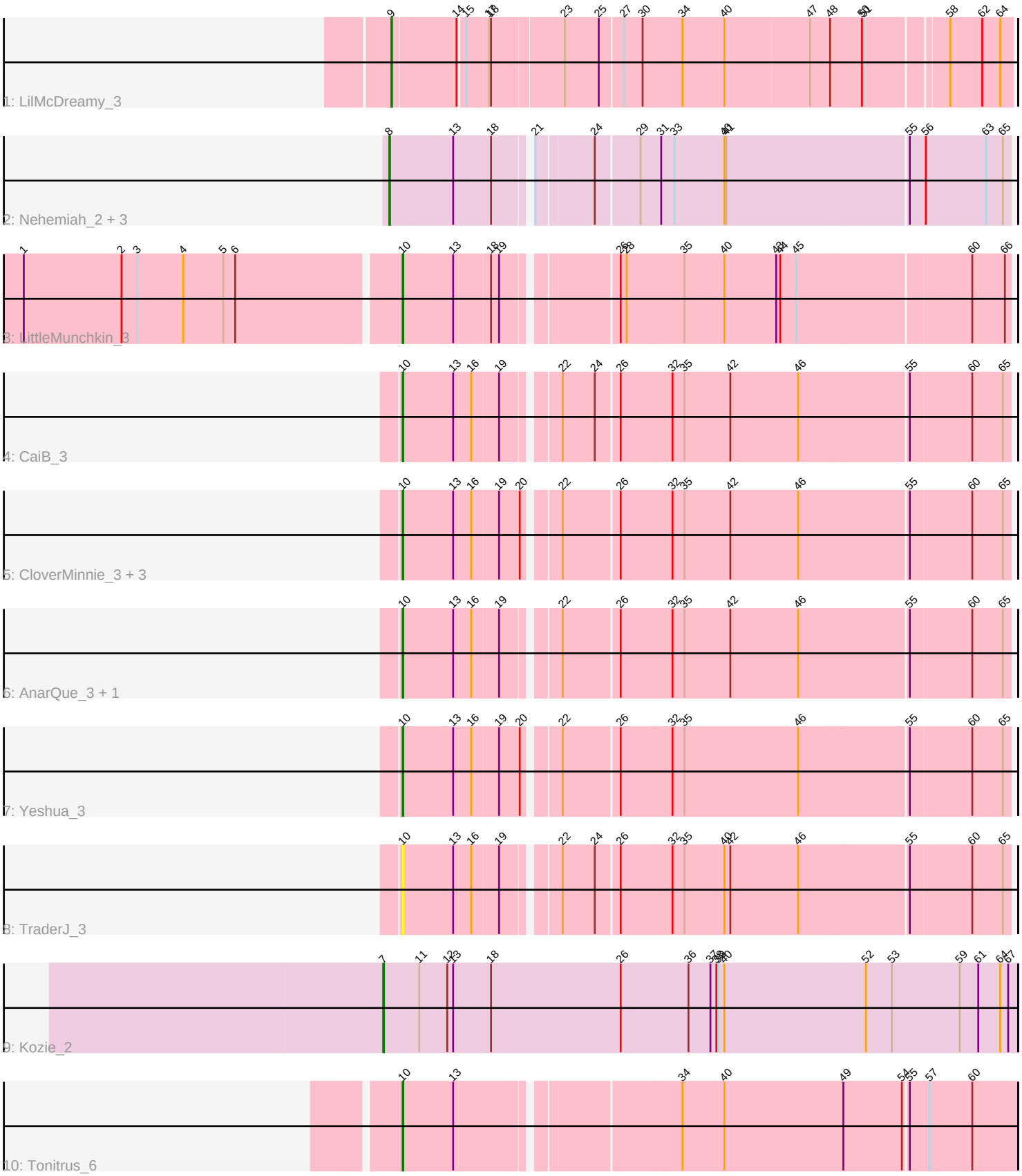
# Pham 348107


1: LilMcDreamy_3
2: Nehemiah_2 + 3
3: LittleMunchkin_3
4: CaiB_3
5: CloverMinnie_3 + 3
6: AnarQue_3 + 1
7: Yeshua_3
8: TraderJ_3
9: Kozie_2
10: Tonitrus_6

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 348107 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348107 has 17 members, 2 are drafts.

Phages represented in each track:
• Track 1 : LilMcDreamy_3
• Track 2 : Nehemiah_2, Phelemich_3, Mysterious_3, Reprobate_3
• Track 3 : LittleMunchkin_3
• Track 4 : CaiB_3
• Track 5 : CloverMinnie_3, MakoManhole_3, MossRose_3, FelixTres_3
• Track 6 : AnarQue_3, Wooper_3
• Track 7 : Yeshua_3
• Track 8 : TraderJ_3
• Track 9 : Kozie_2
• Track 10 : Tonitrus_6

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

The start number called the most often in the published annotations is 10, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnarQue_3, CaiB_3, CloverMinnie_3, FelixTres_3, LittleMunchkin_3, MakoManhole_3, MossRose_3, Tonitrus_6, TraderJ_3, Wooper_3, Yeshua_3,

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

Genes that do not have the "Most Annotated" start:
• Kozie_2, LilMcDreamy_3, Mysterious_3, Nehemiah_2, Phelemich_3, Reprobate_3,

**Summary by start number:**

Start 7:
• Found in 1 of 17 ( 5.9% ) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kozie_2 (EI),

Start 8:
• Found in 4 of 17 ( 23.5% ) of genes in pham
• Manual Annotations of this start: 3 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mysterious_3 (B5), Nehemiah_2 (B5), Phelemich_3 (B5), Reprobate_3 (B5),

Start 9:
• Found in 1 of 17 ( 5.9% ) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilMcDreamy_3 (B12),

Start 10:
• Found in 11 of 17 ( 64.7% ) of genes in pham
• Manual Annotations of this start: 10 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnarQue_3 (DR), CaiB_3 (DR), CloverMinnie_3 (DR), FelixTres_3 (DR), LittleMunchkin_3 (DR), MakoManhole_3 (DR), MossRose_3 (DR), Tonitrus_6 (singleton), TraderJ_3 (DR), Wooper_3 (DR), Yeshua_3 (DR),

**Summary by clusters:**

There are 5 clusters represented in this pham: EI, singleton, DR, B12, B5,

Info for manual annotations of cluster B12:
•Start number 9 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B5:
•Start number 8 was manually annotated 3 times for cluster B5.

Info for manual annotations of cluster DR:
•Start number 10 was manually annotated 9 times for cluster DR.

Info for manual annotations of cluster EI:
•Start number 7 was manually annotated 1 time for cluster EI.

***Gene Information:***

Gene: AnarQue_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for AnarQue_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: CaiB_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for CaiB_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (22, 1865), (24, 1913), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: CloverMinnie_3 Start: 1658, Stop: 2515, Start Num: 10

Candidate Starts for CloverMinnie_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (20, 1823), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: FelixTres_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for FelixTres_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (20, 1823), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: Kozie_2 Start: 879, Stop: 1829, Start Num: 7
Candidate Starts for Kozie_2:
(Start: 7 @879 has 1 MA's), (11, 933), (12, 975), (13, 984), (18, 1041), (26, 1236), (36, 1338), (37, 1371), (38, 1380), (39, 1383), (40, 1392), (52, 1602), (53, 1641), (59, 1743), (61, 1770), (64, 1803), (67, 1815),

Gene: LilMcDreamy_3 Start: 1784, Stop: 2665, Start Num: 9
Candidate Starts for LilMcDreamy_3:
(Start: 9 @1784 has 1 MA's), (14, 1874), (15, 1883), (17, 1913), (18, 1916), (23, 2018), (25, 2069), (27, 2102), (30, 2129), (34, 2189), (40, 2252), (47, 2378), (48, 2408), (50, 2456), (51, 2459), (58, 2573), (62, 2621), (64, 2648),

Gene: LittleMunchkin_3 Start: 1649, Stop: 2506, Start Num: 10
Candidate Starts for LittleMunchkin_3:
(1, 1094), (2, 1241), (3, 1265), (4, 1334), (5, 1394), (6, 1412), (Start: 10 @1649 has 10 MA's), (13, 1724), (18, 1775), (19, 1787), (26, 1937), (28, 1946), (35, 2030), (40, 2090), (43, 2168), (44, 2174), (45, 2198), (60, 2450), (66, 2498),

Gene: MakoManhole_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for MakoManhole_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (20, 1823), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: MossRose_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for MossRose_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (20, 1823), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: Mysterious_3 Start: 1670, Stop: 2548, Start Num: 8
Candidate Starts for Mysterious_3:
(Start: 8 @1670 has 3 MA's), (13, 1763), (18, 1817), (21, 1865), (24, 1946), (29, 2009), (31, 2039), (33, 2057), (40, 2132), (41, 2135), (55, 2402), (56, 2423), (63, 2513), (65, 2537),

Gene: Nehemiah_2 Start: 1670, Stop: 2548, Start Num: 8
Candidate Starts for Nehemiah_2:
(Start: 8 @1670 has 3 MA's), (13, 1763), (18, 1817), (21, 1865), (24, 1946), (29, 2009), (31, 2039), (33, 2057), (40, 2132), (41, 2135), (55, 2402), (56, 2423), (63, 2513), (65, 2537),

Gene: Phelemich_3 Start: 1670, Stop: 2548, Start Num: 8
Candidate Starts for Phelemich_3:
(Start: 8 @1670 has 3 MA's), (13, 1763), (18, 1817), (21, 1865), (24, 1946), (29, 2009), (31, 2039), (33, 2057), (40, 2132), (41, 2135), (55, 2402), (56, 2423), (63, 2513), (65, 2537),

Gene: Reprobate_3 Start: 1667, Stop: 2545, Start Num: 8

Candidate Starts for Reprobate_3:
(Start: 8 @1667 has 3 MA's), (13, 1760), (18, 1814), (21, 1862), (24, 1943), (29, 2006), (31, 2036), (33, 2054), (40, 2129), (41, 2132), (55, 2399), (56, 2420), (63, 2510), (65, 2534),

Gene: Tonitrus_6 Start: 2368, Stop: 3237, Start Num: 10
Candidate Starts for Tonitrus_6:
(Start: 10 @2368 has 10 MA's), (13, 2443), (34, 2749), (40, 2812), (49, 2989), (54, 3076), (55, 3082), (57, 3109), (60, 3172),

Gene: TraderJ_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for TraderJ_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (22, 1865), (24, 1913), (26, 1946), (32, 2021), (35, 2039), (40, 2099), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: Wooper_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for Wooper_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (42, 2108), (46, 2210), (55, 2369), (60, 2459), (65, 2504),

Gene: Yeshua_3 Start: 1658, Stop: 2515, Start Num: 10
Candidate Starts for Yeshua_3:
(Start: 10 @1658 has 10 MA's), (13, 1733), (16, 1757), (19, 1796), (20, 1823), (22, 1865), (26, 1946), (32, 2021), (35, 2039), (46, 2210), (55, 2369), (60, 2459), (65, 2504),